

## Appendix C

### Proposed Action Information

#### **General**

This appendix contains detailed information regarding the proposed action for the project, Nine/Eight/Ten/Eight Lanes. Included in the following pages are typical sections, plan sheets, structure situation and layout sheets and a preliminary cost estimate for the project.

(9 Lanes, Alpine Int. to Bangarter Highway Int.; 8 Lanes Under Bangarter Highway;  
10 Lanes, Bangarter Highway Int. to 10600 South Int.; 8 Lanes Under 10600 South)



- ① INSIDE SHOULDER, WIDENED DURING UDOT MAINTENANCE PROJECT (SPRING 2003), RESTRIPE AS NEW TRAFFIC LANE
- ② PROPOSED NORTHBOUND CLIMBING LANE EXTENDS APPROXIMATELY 3000' INTO SALT LAKE COUNTY
- ③ UDOT MAINTENANCE PROJECT - SPRING 2003



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[illegible]

(9 Lanes, Alpine Int. to Bangerter Highway Int.; 8 Lanes Under Bangerter Highway;  
10 Lanes, Bangerter Highway Int. to 10600 South Int.; 8 Lanes Under 10600 South)



② EXISTING MEDIAN WIDTH TRANSITIONS FROM 64' TO 40'.



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PRELIMINARY

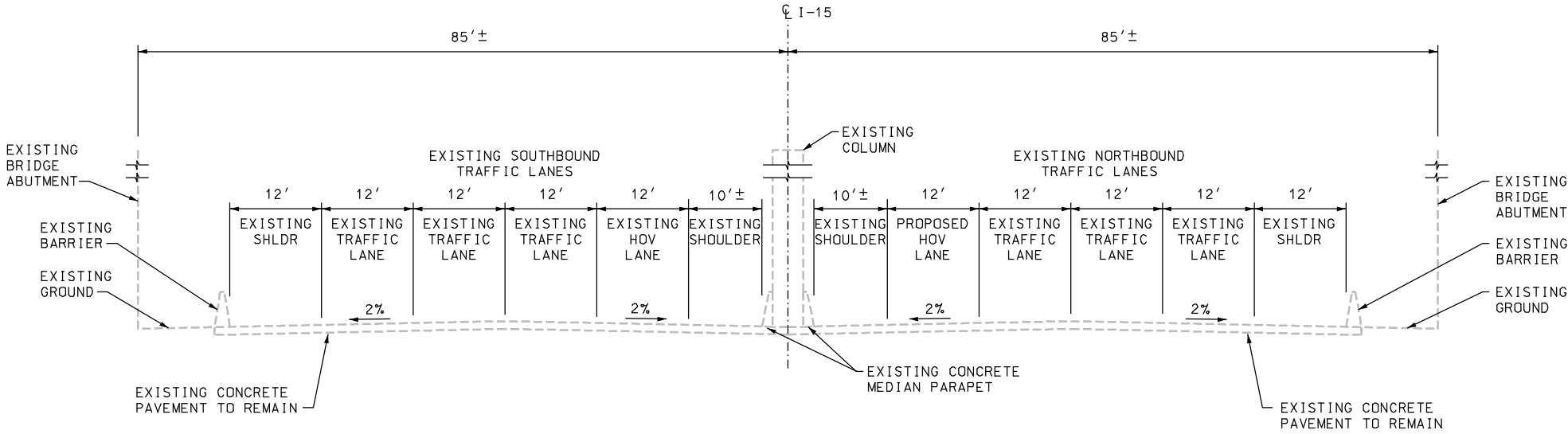
(9 Lanes, Alpine Int. to Bangerter Highway Int.; 8 Lanes Under Bangerter Highway;  
10 Lanes, Bangerter Highway Int. to 10600 South Int.; 8 Lanes Under 10600 South)



MAY 28, 2003  
PRELIMINARY

NINE/EIGHT/TEN/EIGHT LANES ALTERNATIVE

(9 Lanes, Alpine Int. to Bangerter Highway Int.; 8 Lanes Under Bangerter Highway;  
10 Lanes, Bangerter Highway Int. to 10600 South Int.; 8 Lanes Under 10600 South)



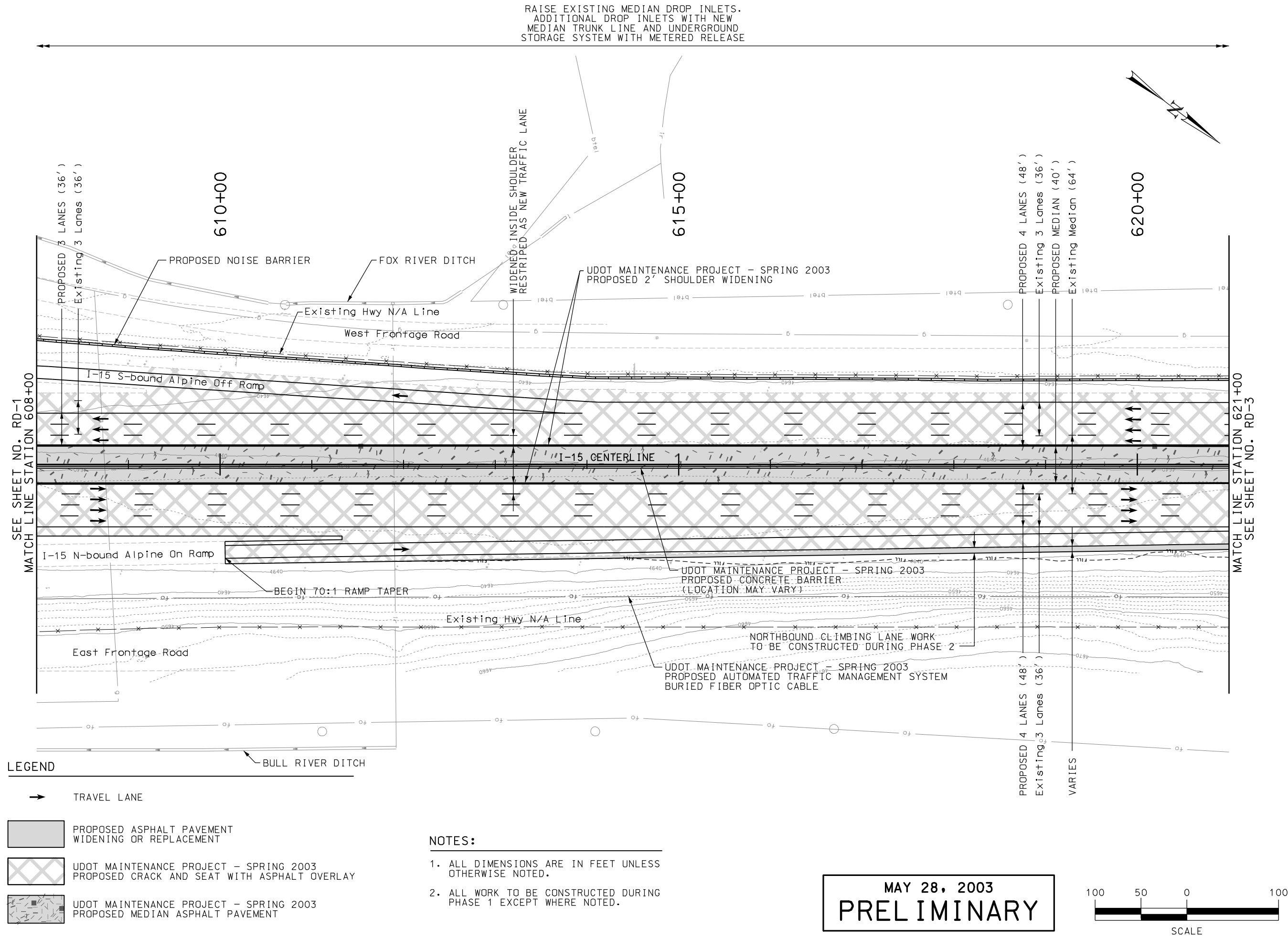
UNDER 10600 SOUTH BRIDGE

MAY 28, 2003  
PRELIMINARY

UTAH DEPARTMENT OF TRANSPORTATION		REGION TWO		SALT LAKE CITY, UTAH		Stanley Consultants Inc.		REVIEW		REVISIONS	
I-15		UTAH CO. LINE TO 10600 SO.		SALT LAKE COUNTY		DESIGN JRH 05/03		CHECK MDA 05/03		DESIGN REV. BY CORR. BY	
9/8/10/8 LANE ALTERNATIVE		APPROVAL		DATE		PROJECT DESIGN ENGINEER		DATE		MAPS	
PROJECT NUMBER		APPROVED		DATE		PRECONSTRUCTION ENGINEER		DATE		ORIGINAL SUBMISSION FOR AUTHORIZATION	
SP-15-7(167)288		QUANT. DJD 05/03		CHECK LDD 05/03		CHECK JRH 05/03		CHECK LDD 05/03		REMARKS	
SALT LAKE COUNTY		SHEET NO.		TS-4							

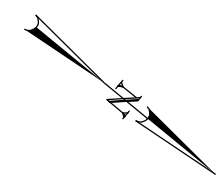


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UTAH DEPARTMENT OF TRANSPORTATION										UTAH COUNTY									
REGION TWO										SALT LAKE CITY, UTAH									
Stanley Consultants										REVIEW									
DESIGN		JRH		05/03		CHECK		MDA		05/03		DATE		NO.		DATE		REMARKS	
DRAWN		LDD/GO		05/03		CHECK		JRH		05/03		DATE		DESIGN		MAPS		PARCELS REQUEST	
QUANT.		DJD		05/03		CHECK		LDD		05/03		DATE		ORIGINAL		SUBMISSION FOR AUTHORIZATION		REVISIONS	
PROJECT NUMBER		SP-15-7(167)288		APPROVED		DATE		PRECONSTRUCTION ENGINEER		DATE		APPROVAL		RECOMM.		DATE		BY	
UTAH CO. LINE TO 10600 SO.		9/8/10/8 LANE ALTERNATIVE		I-15		UTAH COUNTY		RD-2		SHEET NO.		RD-2		UTAH COUNTY		RD-2		SHEET NO.	

RAISE EXISTING MEDIAN DROP INLETS



630+00

PC 626+46.96

PROPOSED 4 LANES (48')  
Existing 3 Lanes (36')  
PROPOSED MEDIAN (40')  
Existing Median (64')

UDOT MAINTENANCE PROJECT - SPRING 2003  
PROPOSED CONCRETE BARRIER  
(LOCATION MAY VARY)

- PROPOSED NOISE BARRIER

WIDENED INSIDE SHOULDER  
RESTRIPTED AS NEW TRAFFIC LANE

UDOT MAINTENANCE PROJECT - SPRING 2003  
PROPOSED CONCRETE BARRIER  
(LOCATION MAY VARY)

West Frontage Road 6

Existing Hwy N/A Line

I-15 CENTERLINE  $R = 5730$

CLIMBING LANE (PHASE 2)

END 70:1 RAMP TAPER  
BEGIN CLIMBING LANE

Existing Hwy N/A Line

NORTHBOUND CLIMBING  
LANE WIDENING  
TO BE CONSTRUCTED  
DURING PHASE 2

UDOT MAINTENANCE  
PROJECT - SPRING 2003  
PROPOSED FREEWAY CLOSED  
CIRCUIT TELEVISION CAMERA

UDOT MAINTENANCE PROJECT - SPRING 2003  
PROPOSED AUTOMATED TRAFFIC MANAGEMENT SYSTEM  
BURIED FIBER OPTIC CABLE

UDOT MAINTENANCE PROJECT - SPRING 2003  
PROPOSED AUTOMATED TRAFFIC  
MANAGEMENT SYSTEM CABINET

PROPOSED 5 LANES (60')  
Existing 3 Lanes (36')

SEE SHEET NO. RD-2  
MATCH LINE STATION 621+00

MATCH LINE STATION 634+00  
SEE SHEET NO. RD-4

→ TRAVEL LANE

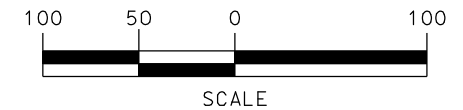
PROPOSED ASPHALT PAVEMENT  
WIDENING OR REPLACEMENT

UDOT MAINTENANCE PROJECT - SPRING 2003  
PROPOSED CRACK AND SEAT WITH ASPHALT OVERLAY

UDOT MAINTENANCE PROJECT - SPRING 2003  
PROPOSED MEDIAN ASPHALT PAVEMENT

1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
2. ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

MAY 28, 2003  
PRELIMINARY



UTAH DEPARTMENT OF TRANSPORTATION  
REGION TWO  
SALT LAKE CITY, UTAH

I-15
UTAH CO. LINE TO 10600 SD.

PROJECT  
NUMBER

UTAH  
COUNTY

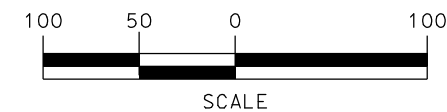
SHEET NO. **RD-3**






- NOTES:

- MAY 28, 2003  
PRELIMINARY



SHEET NO.		UTAH COUNTY		RD-4	
I-15		UTAH DEPARTMENT OF TRANSPORTATION			
UTAH CO. LINE TO 10600 SO.		REGION TWO SALT LAKE CITY, UTAH			
9/8/10/8 LANE ALTERNATIVE		 Stanley Consultants Inc.			
PROJECT NUMBER		SP-15-7(167)288			
		APPROVAL RECORD		DESIGN JRH 05/03 CHECK JMA 05/03 REVIEW	
		DATE PROJECT DESIGN ENGINEER		DATE	
		APPROVED		DATE	
		DATE PRECONSTRUCTION ENGINEER		DATE	
		QUANT. DJD 05/03 CHECK LDD 05/03 BY		NO. DATE	
		DESIGN REV. BY CORR. BY		MAPS PARCELS REQUEST BY	
		ORIGINAL SUBMISSION FOR AUTHORIZATION		REMARKS	
		REVIEWS			

RAISE EXISTING MEDIAN DROP INLETS

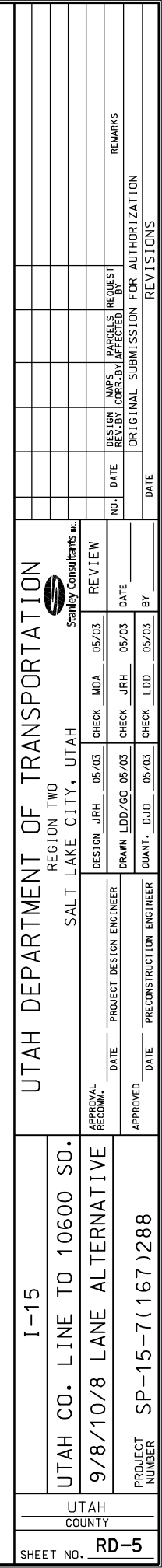


MATCH LINE STATION 660+00  
SEE SHEET NO. RD-6

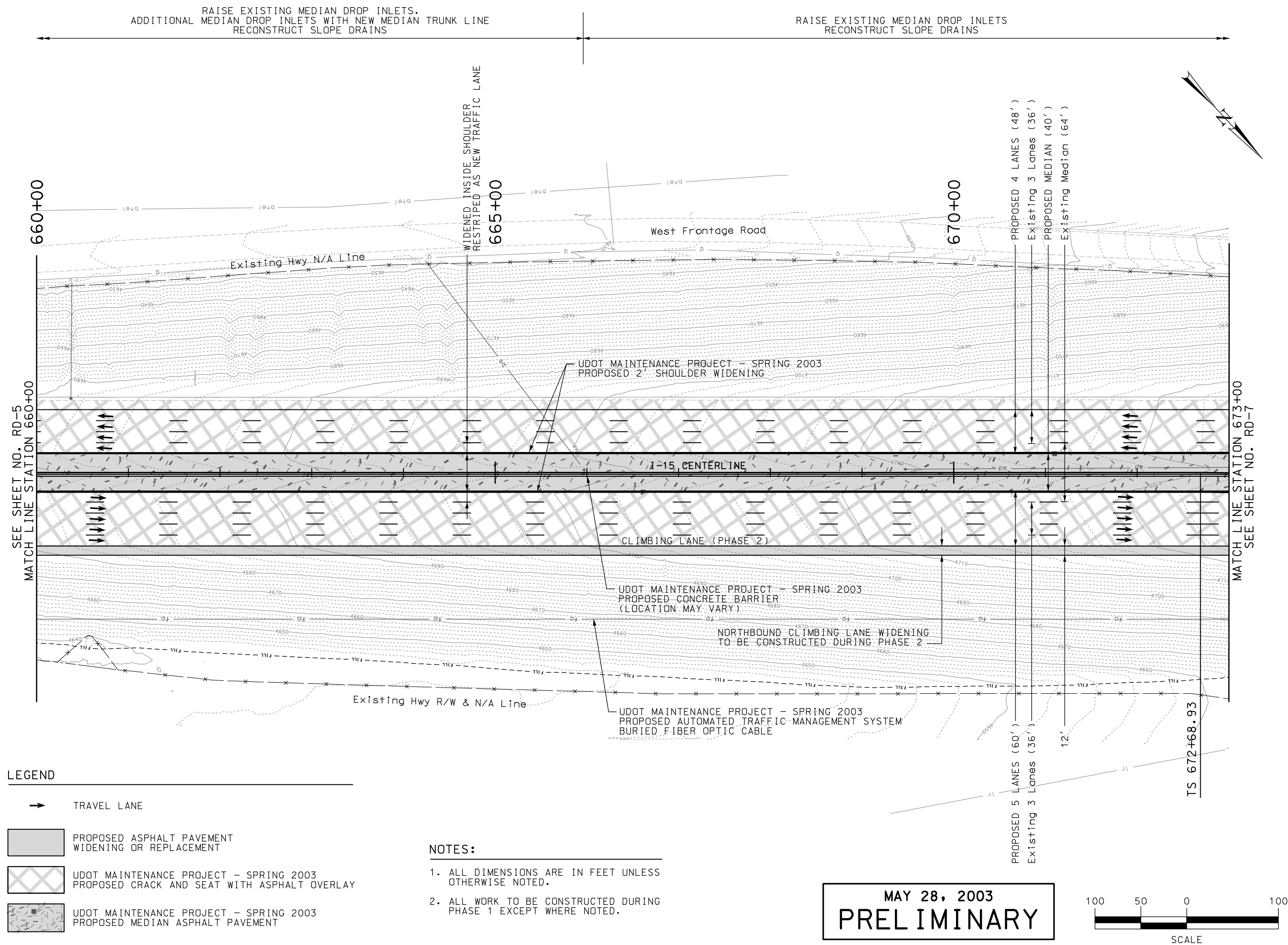
→ TRAVEL LANE




- MAY 28, 2003  
PRELIMINARY

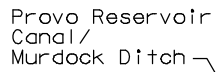


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UTAH COUNTY		UTAH DEPARTMENT OF TRANSPORTATION										REGION TWO		SALT LAKE CITY, UTAH		 Stanley Consultants Inc.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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RAISE EXISTING MEDIAN DROP INLETS  
RECONSTRUCT SLOPE DRAINS



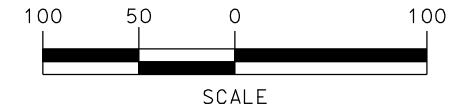
### LEGEND

- |   |  |
|---|--|
|  | TRAVEL LANE  |
|  | PROPOSED ASPHALT PAVEMENT<br>WIDENING OR REPLACEMENT                                   |
|  | UDOT MAINTENANCE PROJECT – SPRING 2003<br>PROPOSED CRACK AND SEAT WITH ASPHALT OVERLAY |
|  | UDOT MAINTENANCE PROJECT – SPRING 2003<br>PROPOSED MEDIAN ASPHALT PAVEMENT             |

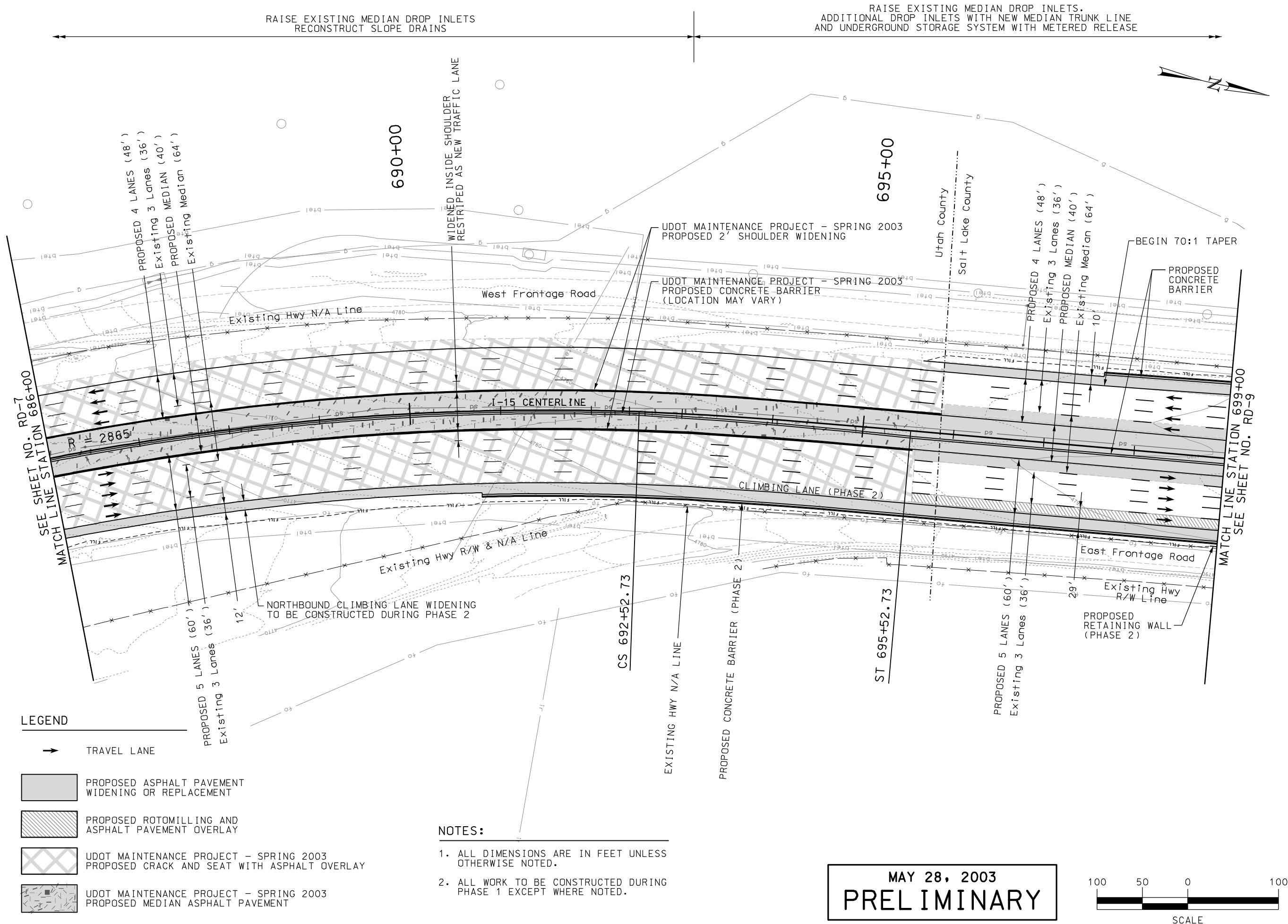
NOTES:

1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
2. ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

MAY 28, 2003  
PRELIMINARY

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UTAH DEPARTMENT OF TRANSPORTATION										REVISIONS			
REGION TWO SALT LAKE CITY, UTAH										NO.	DATE	DESIGN REV. BY	REMARKS
Stanley Consultants Inc.										DATE	DATE	MAPS REV. BY	ORIGINAL SUBMISSION FOR AUTHORIZATION
UTAH CO. LINE TO 10600 SO.										DESIGN	DATE	MAPS	REVISIONS
9/8/10/8 LANE ALTERNATIVE										DRWN	DATE	MAPS	REVISIONS
PROJECT NUMBER SP-15-7(167)288										QUANT.	DATE	MAPS	REVISIONS
UTAH/SALT LAKE COUNTY										DATE	DATE	MAPS	REVISIONS
SHEET NO. RD-8										DATE	DATE	MAPS	REVISIONS

04-JUN-2003  
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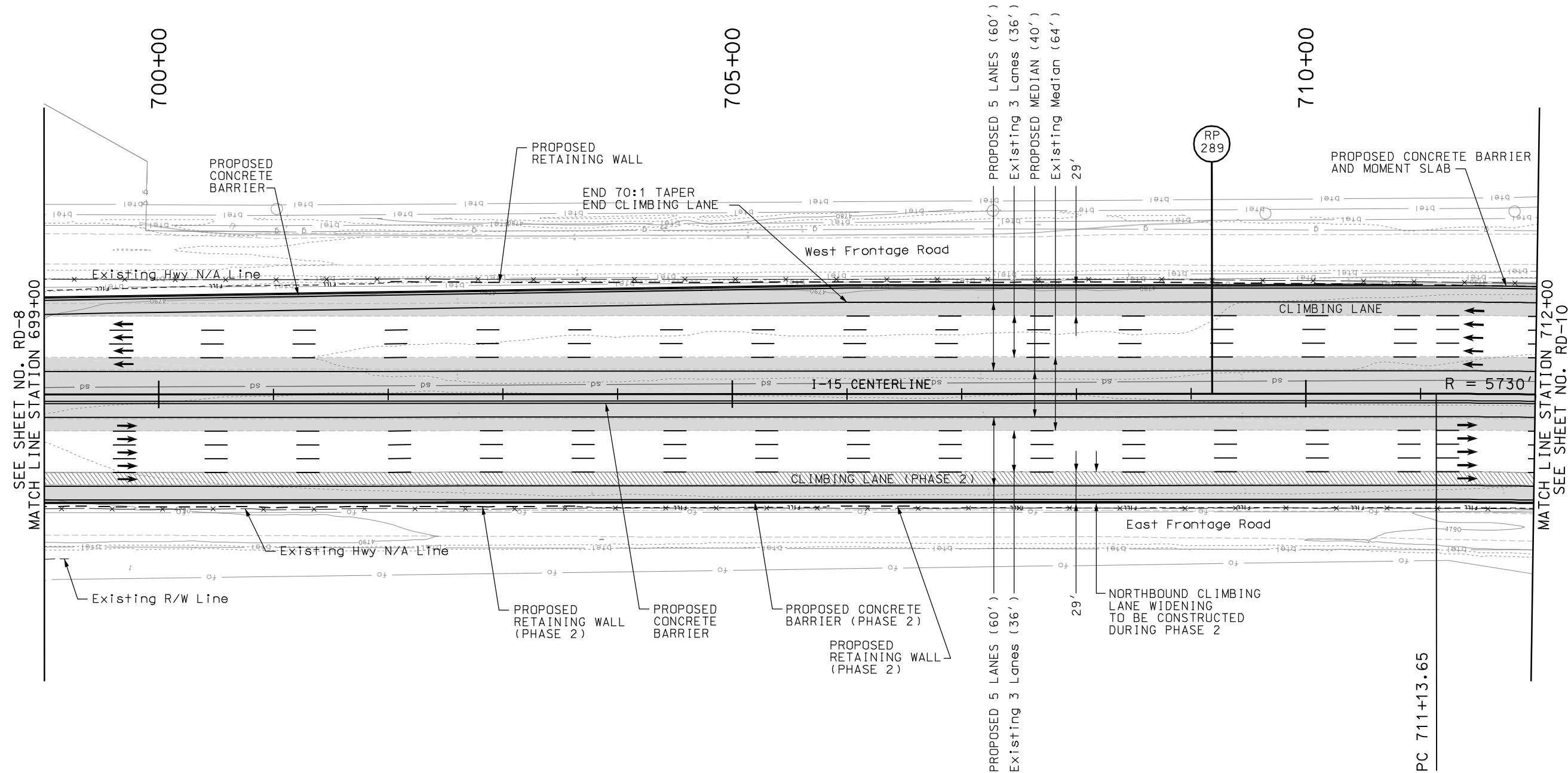
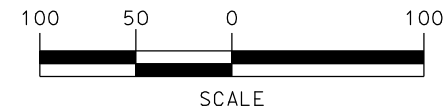
# LEGEND

- TRAVEL LANE
- PROPOSED ASPHALT PAVEMENT  
WIDENING OR REPLACEMENT
- PROPOSED ROTOMILLING AND  
ASPHALT PAVEMENT OVERLAY

## NOTES:

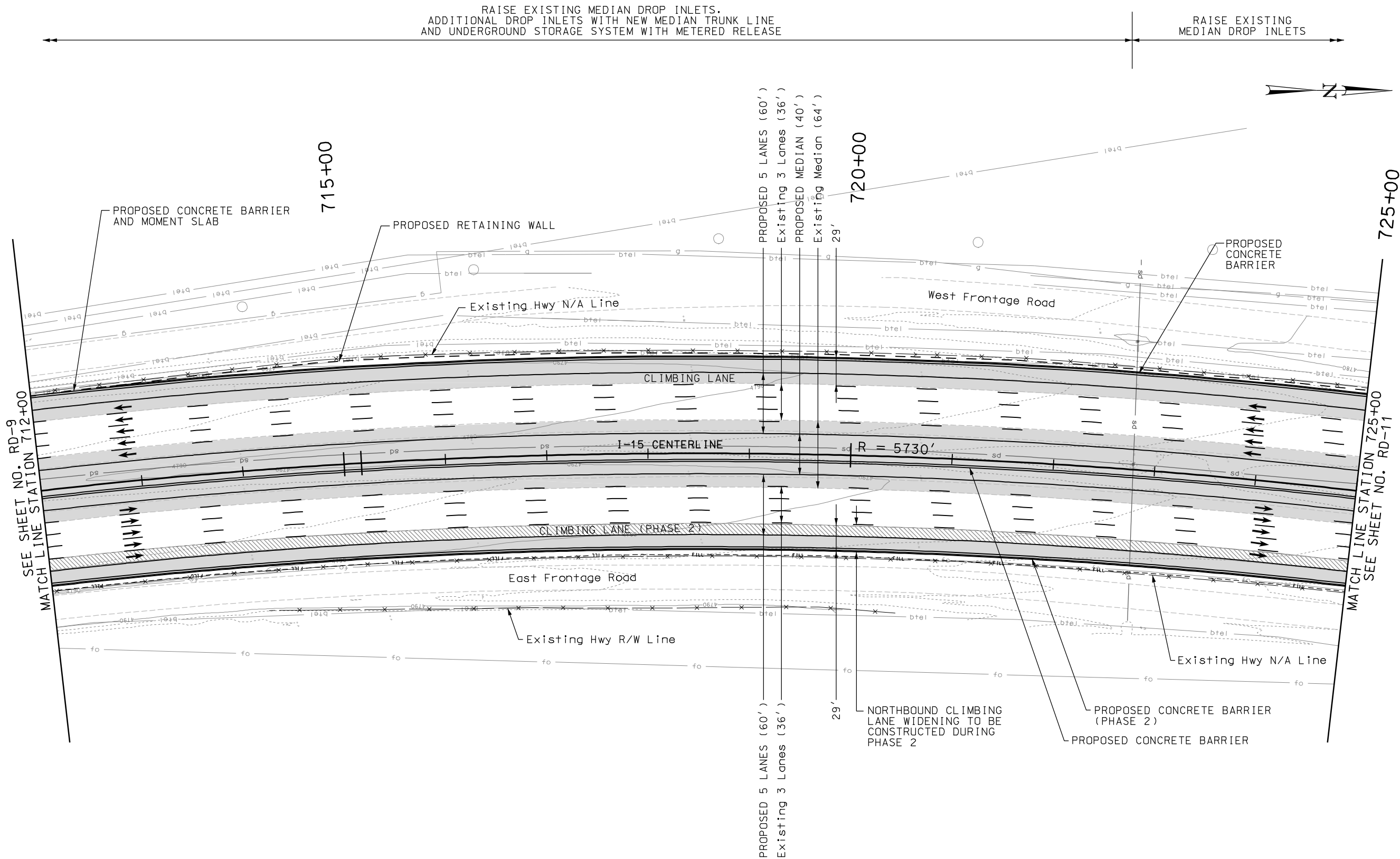
- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
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MAY 28, 2003  
**PRELIMINARY**



SALT LAKE COUNTY		UTAH DEPARTMENT OF TRANSPORTATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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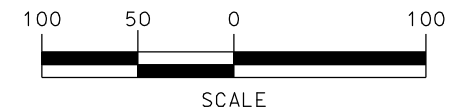
#### LEGEND


- TRAVEL LANE
- PROPOSED ASPHALT PAVEMENT  
WIDENING OR REPLACEMENT
- PROPOSED ROTOMILLING AND  
ASPHALT PAVEMENT OVERLAY

#### NOTES:

- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

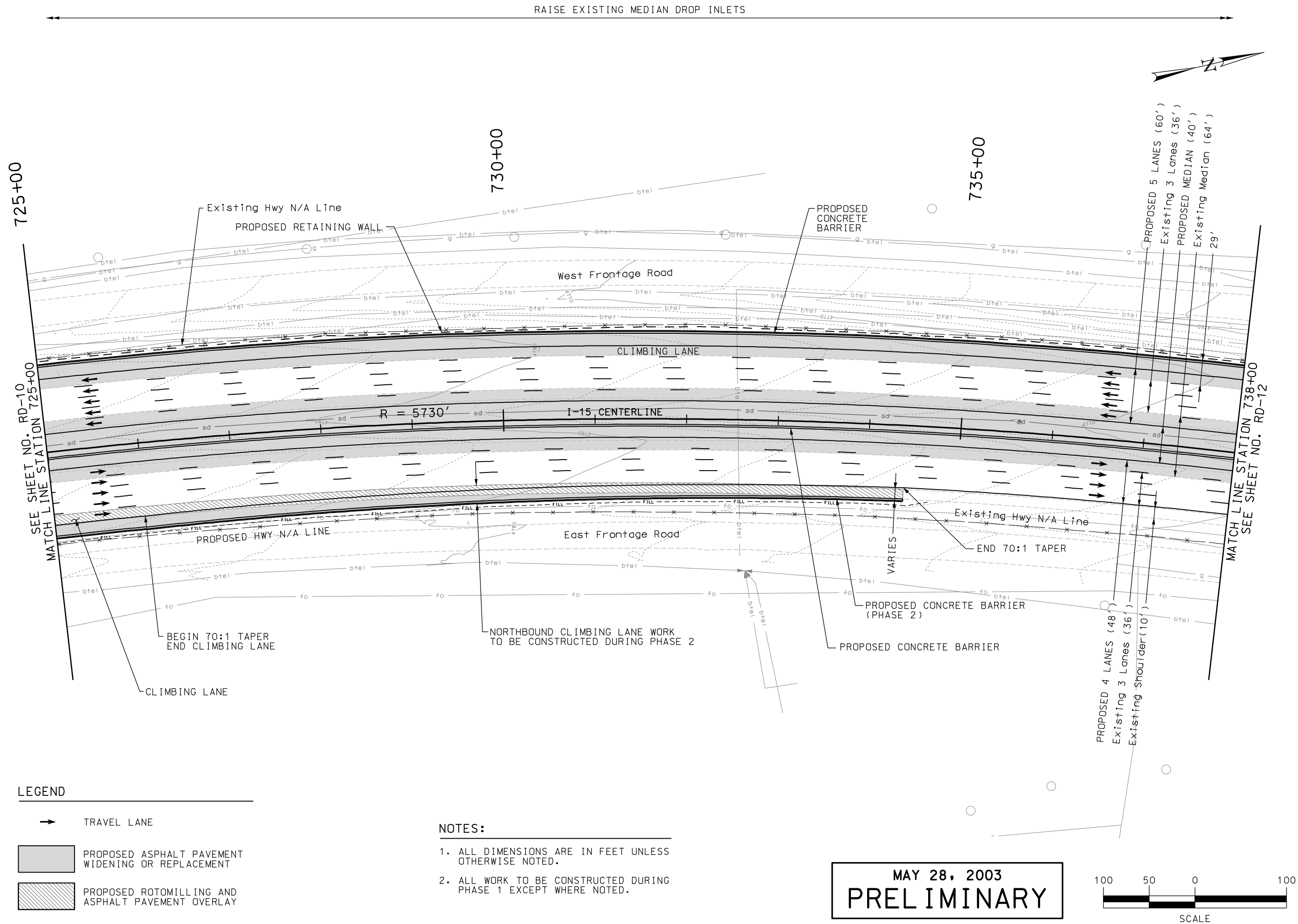
MAY 28, 2003  
**PRELIMINARY**



SALT LAKE COUNTY		UTAH DEPARTMENT OF TRANSPORTATION										REVISIONS													
SHEET NO. RD-10		I-15		REGION TWO										DATE											
		UTAH CO. LINE TO 10600 SO.		SALT LAKE CITY, UTAH										ORIGINAL SUBMISSION FOR AUTHORIZATION											
		9/8/10/8 LANE ALTERNATIVE		 Stanley Consultants Inc.										DATE											
		PROJECT NUMBER SP-15-7(167)288		APPROVAL RECOMM.		DATE		PROJECT DESIGN ENGINEER		DESIGN JRH		CHECK MDA		REVIEW		NO. DATE		DESIGN REV. BY		MAPS CORR. BY		PARCELS REQUEST BY		REMARKS	
				APPROVED		DATE		PRECONSTRUCTION ENGINEER		QUANT. DJD		CHECK LDD		BY											

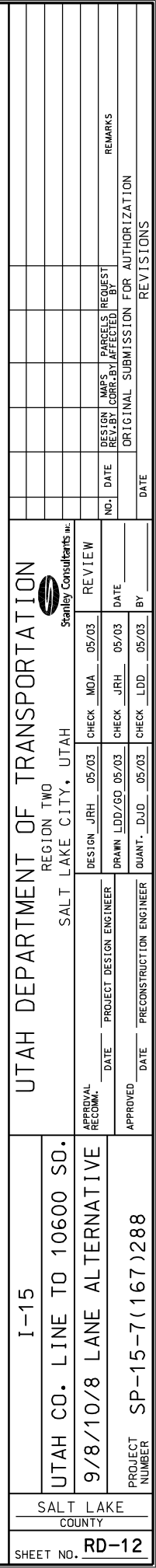


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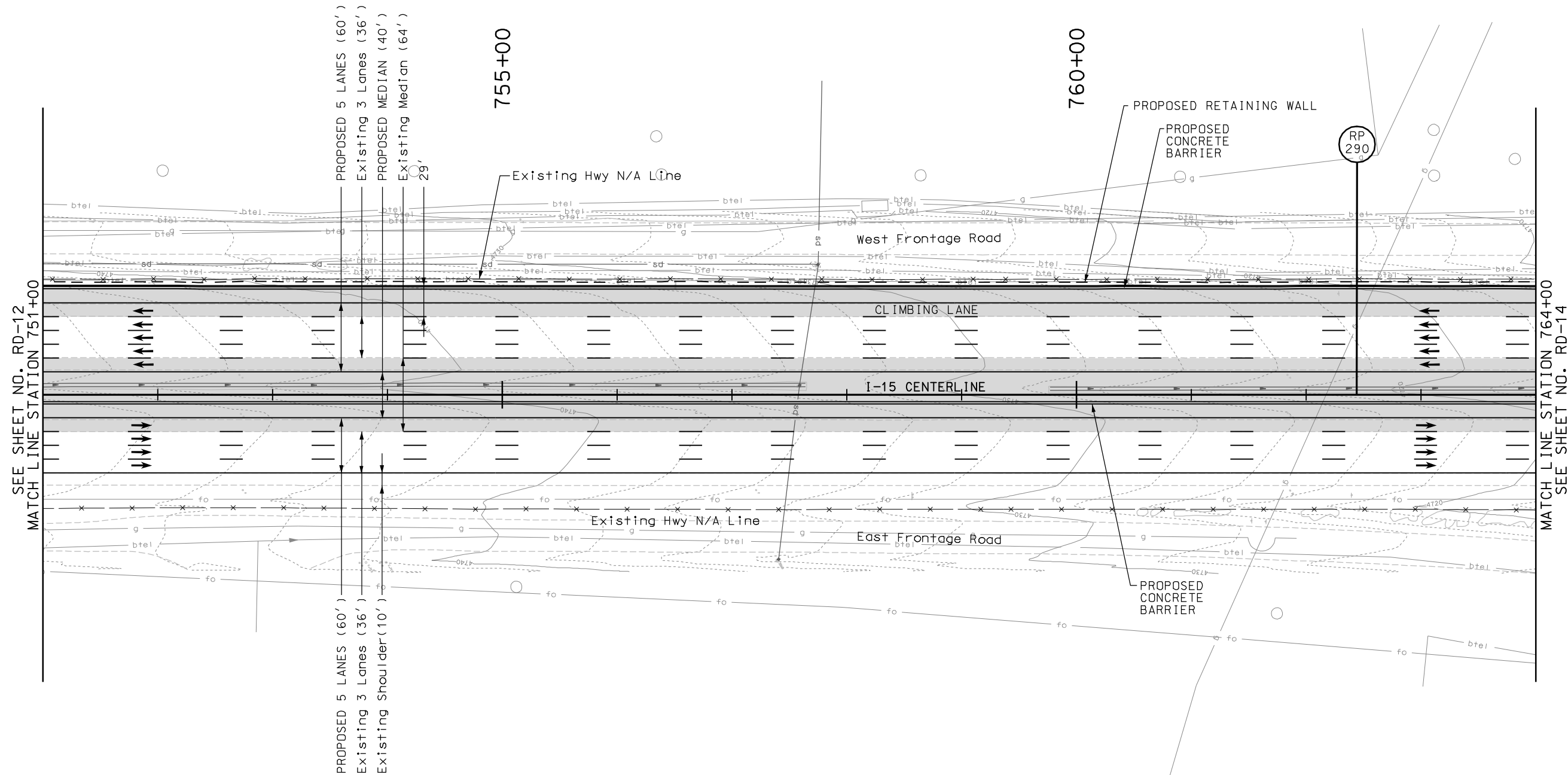
UTAH DEPARTMENT OF TRANSPORTATION		REGION TWO		SALT LAKE CITY, UTAH		Stanley Consultants	
I-15		UTAH CO. LINE TO 10600 SO.		9/8/10/8 LANE ALTERNATIVE		PROJECT NUMBER SP-15-7(167)288	
APPROVAL		DESIGN		CHECK		REVIEW	
RECOMM.		JRH		JRH		JRH	
DATE		05/03		05/03		05/03	
APPROVED		LDD/GO		CHECK		CHECK	
DATE		05/03		05/03		05/03	
RECONSTRUCTION		ENGINEER		QUANT.		LDD	
DATE		05/03		05/03		05/03	
DESIGN		MAPS		PARCELS		REQUEST	
REV. BY		CORR. BY		AFFECTED		BY	
NO.		DATE		ORIGINAL		SUBMISSION FOR AUTHORIZATION	
REVISIONS		DATE		REVISIONS		REVISIONS	
REMARKS		REVISIONS		REVISIONS		REVISIONS	
SALT LAKE COUNTY		RD-11		SHEET NO.		RD-11	





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RAISE EXISTING MEDIAN DROP INLETS.  
ADDITIONAL MEDIAN DROP INLETS WITH NEW MEDIAN TRUNK LINE



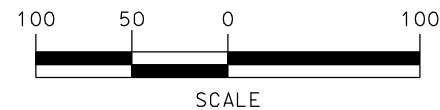
LEGEND

- TRAVEL LANE
- PROPOSED ASPHALT PAVEMENT WIDENING OR REPLACEMENT

NOTES:

- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

MAY 28, 2003  
PRELIMINARY



SALT LAKE COUNTY		UTAH DEPARTMENT OF TRANSPORTATION										Stanley Consultants Inc.									
SHEET NO. RD-13		REGION TWO										SALT LAKE CITY, UTAH									
I-15		UTAH CO. LINE TO 10600 SO.		9/8/10/8 LANE ALTERNATIVE		PROJECT NUMBER SP-15-7(167)288		APPROVAL RECOMM.		DATE PROJECT DESIGN ENGINEER		DESIGN JRH 05/03		CHECK MDA 05/03		REVIEW					
								APPROVED		DATE PRECONSTRUCTION ENGINEER		DRAIN LDD/GO 05/03		CHECK JRH 05/03		DATE					
												QUANT. DJD 05/03		CHECK LDD 05/03		BY					
																NO. DATE					
																DESIGN REV. BY					
																PARCELS CORR. BY AFFECTED					
																REQUEST BY					
																REMARKS					
																ORIGINAL SUBMISSION FOR AUTHORIZATION					
																REVISIONS					
																DATE					

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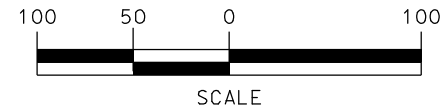
# LEGEND

- TRAVEL LANE
- PROPOSED ASPHALT PAVEMENT  
WIDENING OR REPLACEMENT

# NOTES:

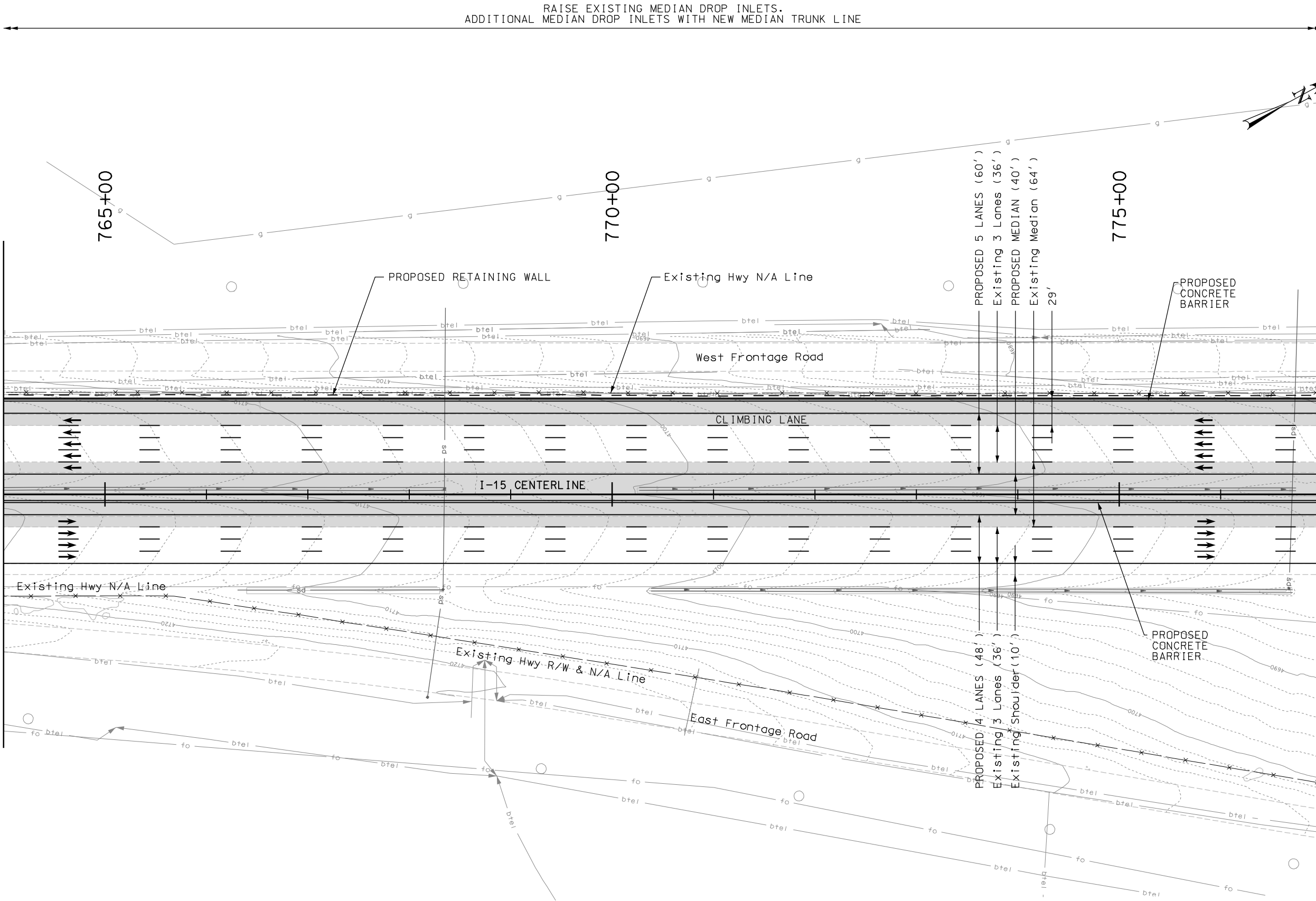
1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
2. ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

MAY 28, 2003  
PRELIMINARY



SEE SHEET NO. RD-13  
MATCH LINE STATION 764+00

MATCH LINE STATION 777+00  
SEE SHEET NO. RD-15



UTAH DEPARTMENT OF TRANSPORTATION				Stanley Consultants			
REGION TWO				SALT LAKE CITY, UTAH			
I-15				PROJECT DESIGN ENGINEER			
UTAH CO. LINE TO 10600 SO.				DATE			
9/8/10/8 LANE ALTERNATIVE				APPROVED			
PROJECT NUMBER SP-15-7(167)288				DATE			
SALT LAKE COUNTY				DESIGN JRH 05/03			
SHEET NO. RD-14				CHECK MDA 05/03			
				DRAWN LDD/GO 05/03			
				CHECK JRH 05/03			
				QUANT. DJD 05/03			
				CHECK LDD 05/03			
				REVIEW			
				DATE			
				BY			
				DESIGN MAPS / PARCELS REQUEST REV. BY CORR. BY AFFECTED BY			
				NO. DATE			
				ORIGINAL SUBMISSION FOR AUTHORIZATION			
				REVISIONS			
				REMARKS			

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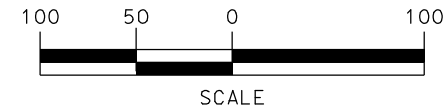
# LEGEND

- TRAVEL LANE
- PROPOSED ASPHALT PAVEMENT  
WIDENING OR REPLACEMENT

# NOTES:

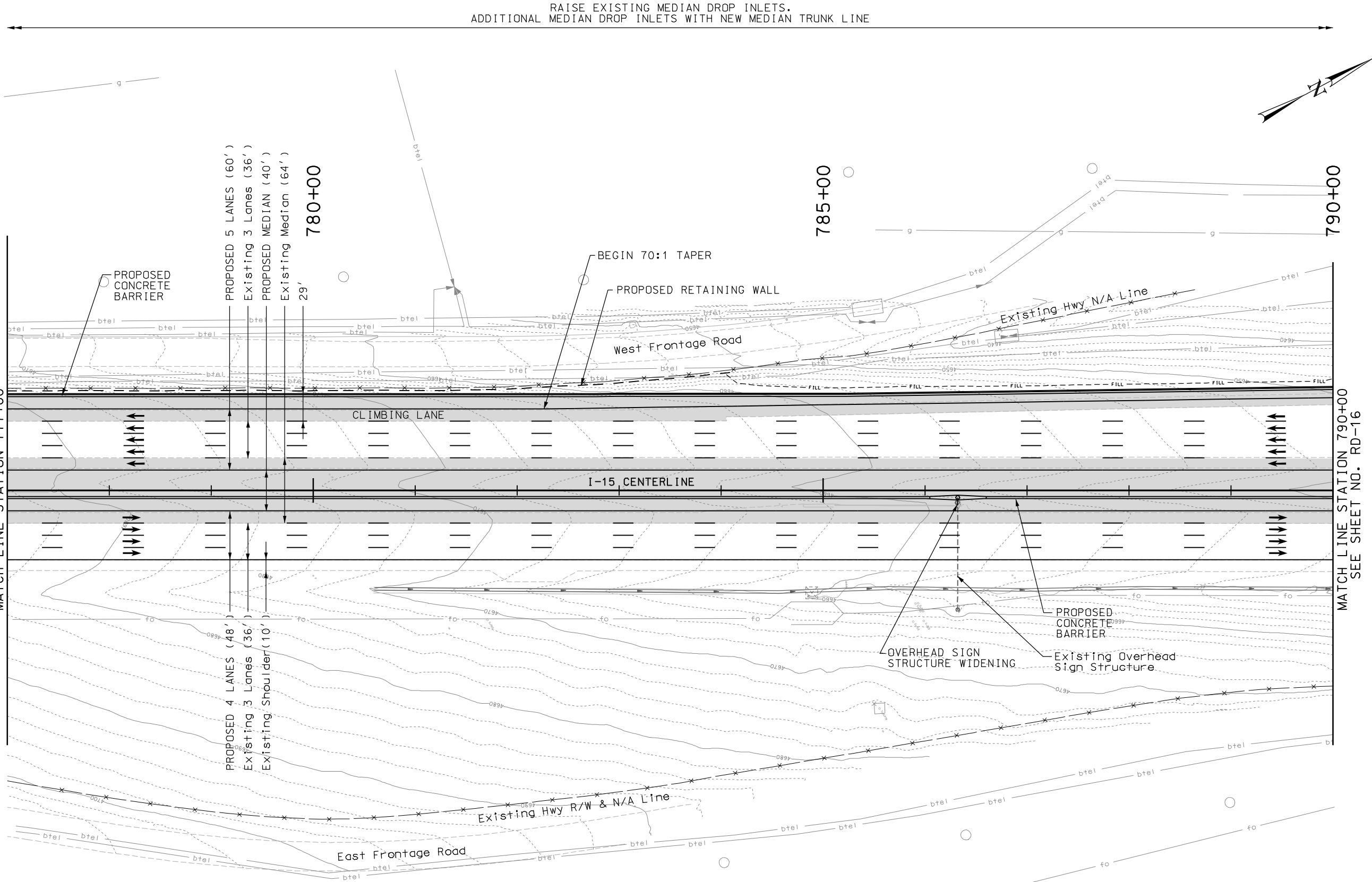
- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

MAY 28, 2003  
**PRELIMINARY**



SEE SHEET NO. RD-14  
MATCH LINE STATION 777+00

MATCH LINE STATION 790+00  
SEE SHEET NO. RD-16



UTAH DEPARTMENT OF TRANSPORTATION				REGION TWO				Stanley Consultants			
SALT LAKE CITY, UTAH				SALT LAKE CITY, UTAH				SALT LAKE CITY, UTAH			
I-15				UTAH CO. LINE TO 10600 SO.				9/8/10/8 LANE ALTERNATIVE			
PROJECT NUMBER				SP-15-7(167)288				REVISIONS			
APPROVAL				APPROVAL				REVISIONS			
RECOMM.				RECOMM.				REVISIONS			
DATE				DATE				DATE			
PROJECT DESIGN ENGINEER				PROJECT DESIGN ENGINEER				PROJECT DESIGN ENGINEER			
DATE				DATE				DATE			
DESIGN				DESIGN				DESIGN			
CHECK				CHECK				CHECK			
MAY 05/03				MAY 05/03				MAY 05/03			
DRAWN				DRAWN				DRAWN			
LDD/GO				LDD/GO				LDD/GO			
MAY 05/03				MAY 05/03				MAY 05/03			
QUANT.				QUANT.				QUANT.			
DJD				DJD				DJD			
MAY 05/03				MAY 05/03				MAY 05/03			
CHECK				CHECK				CHECK			
LDD				LDD				LDD			
MAY 05/03				MAY 05/03				MAY 05/03			
BY				BY				BY			
DATE				DATE				DATE			
REVIEW				REVIEW				REVIEW			
MAY 05/03				MAY 05/03				MAY 05/03			
DESIGN MAPS				DESIGN MAPS				DESIGN MAPS			
PARCELS REQUEST				PARCELS REQUEST				PARCELS REQUEST			
REV. BY				REV. BY				REV. BY			
CORR. BY				CORR. BY				CORR. BY			
ORIGINAL SUBMISSION FOR AUTHORIZATION				ORIGINAL SUBMISSION FOR AUTHORIZATION				ORIGINAL SUBMISSION FOR AUTHORIZATION			
REVISIONS				REVISIONS				REVISIONS			
DATE				DATE				DATE			
NO.				NO.				NO.			
DATE				DATE				DATE			
REMARKS				REMARKS				REMARKS			
SALT LAKE COUNTY				SALT LAKE COUNTY				SALT LAKE COUNTY			
RD-15				RD-15				RD-15			

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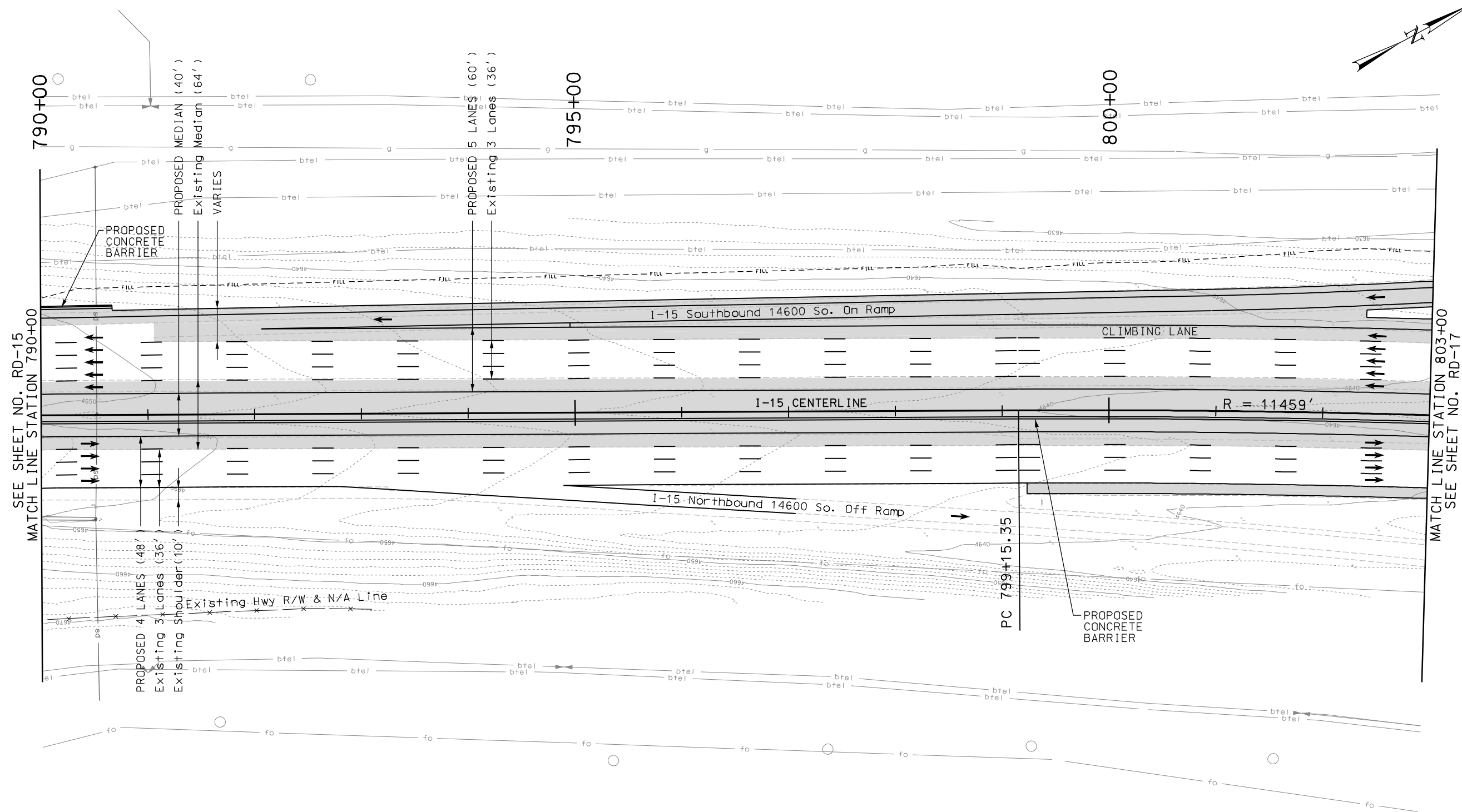
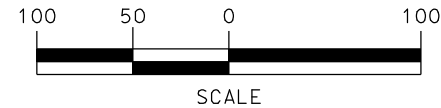
# LEGEND

- TRAVEL LANE
- PROPOSED ASPHALT PAVEMENT  
WIDENING OR REPLACEMENT

# NOTES:

- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

MAY 28, 2003  
**PRELIMINARY**



UTAH DEPARTMENT OF TRANSPORTATION		REGION TWO		SALT LAKE CITY, UTAH		Stanley Consultants	
I-15		UTAH CO. LINE TO 10600 SO.		9/8/10/8 LANE ALTERNATIVE		PROJECT NUMBER SP-15-7(167)288	
APPROVAL		DESIGN		CHECK		REVIEW	
RECOMM.		JRH		JRH		JRH	
DATE		05/03		05/03		05/03	
APPROVED		LDD/GO		JRH		JRH	
DATE		05/03		05/03		05/03	
PRECONSTRUCTION ENGINEER		QUANT.		LDD		BY	
DATE		05/03		05/03		05/03	
DESIGN		MAPS		PARCELS REQUEST		REMARKS	
REV. BY		CORR. BY		AFFECTED		BY	
NO.		DATE		DATE		DATE	
ORIGINAL SUBMISSION FOR AUTHORIZATION		REVISIONS		REVISIONS		REVISIONS	
SHEET NO.		RD-16		RD-16		RD-16	

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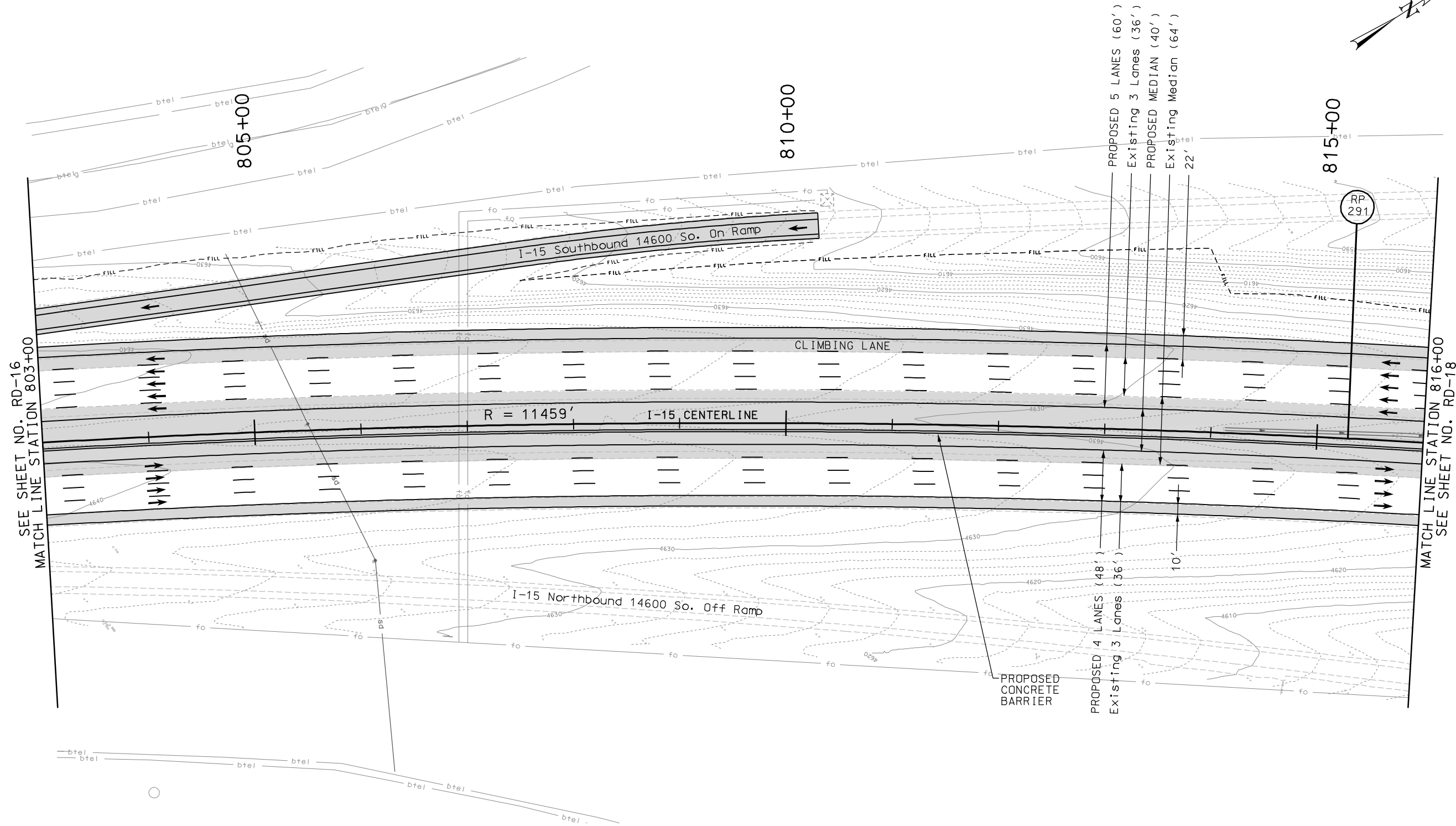
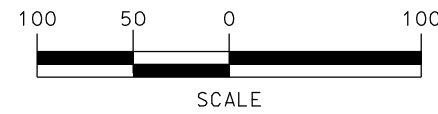
# LEGEND

- TRAVEL LANE
- PROPOSED ASPHALT PAVEMENT  
WIDENING OR REPLACEMENT

# NOTES:

- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

MAY 28, 2003  
**PRELIMINARY**



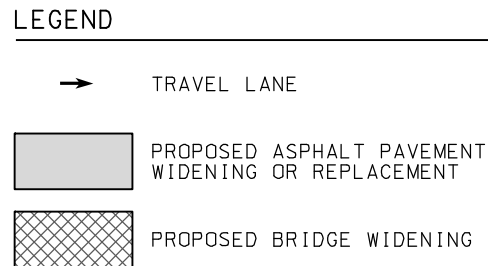
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I-15		UTAH CO. LINE TO 10600 SO.		9/8/10/8 LANE ALTERNATIVE		PROJECT NUMBER SP-15-7(167)288	
SALT LAKE COUNTY		SHEET NO. RD-17		DESIGN JRH 05/03		CHECK MDA 05/03	
DATE		PROJECT DESIGN ENGINEER		CHECK JRH 05/03		DATE	
APPROVED		DATE		DRAWN LDD/GO 05/03		CHECK JRH 05/03	
APPROVAL RECOMM.		DATE		QUANT. DJD 05/03		CHECK LDD 05/03	
APPROVED		DATE		PRECONSTRUCTION ENGINEER		BY	
DESIGN MAPS / PARCELS REQUEST REV. BY CORR. BY AFFECTED		NO. DATE		REVIEW		DATE	
ORIGINAL SUBMISSION FOR AUTHORIZATION		DATE		REVISIONS		REMARKS	

MAY 28, 2003  
PRELIMINARY

SALT LAKE  
COUNTY

SHEET NO. **RD-18**

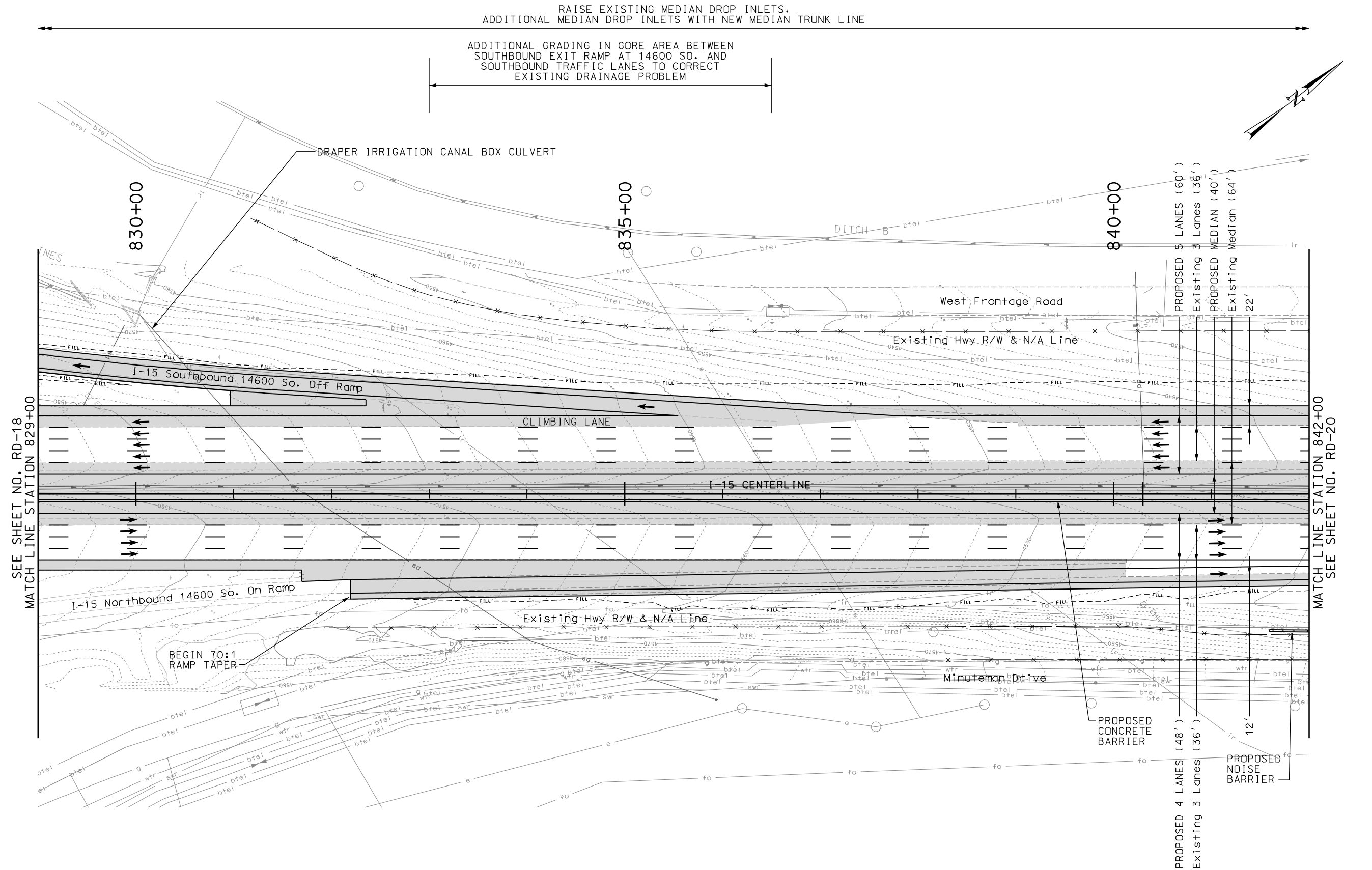
UTAH DEPARTMENT OF TRANSPORTATION		REGION TWO		SALT LAKE CITY, UTAH		Stanley Consultants Inc.	
APPROVAL RECORDING	DATE	PROJECT	DESIGN ENGINEER	DESIGN	JRH	05/03	CHECK
				DRAWN	LDD/GD	05/03	CHECK
APPROVED	DATE	RECONSTRUCTION	ENGINEER	QUANT.	D/JN	05/03	CHECK
					IDD	05/03	BY
				CHECK		JRH	05/03
				CHECK		MOA	05/03
				CHECK		IDD	05/03
				CHECK		DATE	
				CHECK		DATE	

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- NOTES:**
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1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
  2. ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

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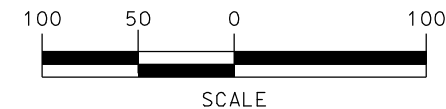
#### LEGEND

- TRAVEL LANE
- PROPOSED ASPHALT PAVEMENT  
WIDENING OR REPLACEMENT

#### NOTES:

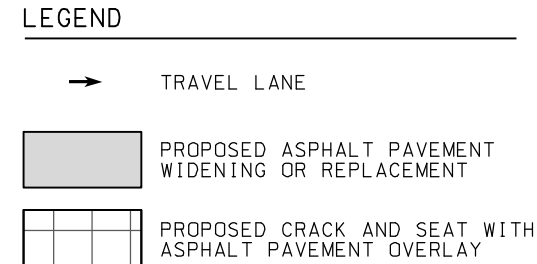
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2. ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

MAY 28, 2003  
PRELIMINARY



SHEET NO.		SALT LAKE COUNTY		UTAH DEPARTMENT OF TRANSPORTATION										Stanley Consultants INC.															
I-15		UTAH CO. LINE TO 10600 SO.		REGION TWO		SALT LAKE CITY, UTAH		DESIGN		CHECK		MDA		REVIEW		NO.		DATE		DESIGN REV. BY		MAPS CORR. BY		PARCELS REQUEST BY		REMARKS			
9/8/10/8 LANE ALTERNATIVE		PROJECT NUMBER		SP-15-7(167)288		APPROVED		DATE		PROJECT DESIGN ENGINEER		DRAWN		LDD/GO		05/03		CHECK		JRH		05/03		DATE		ORIGINAL SUBMISSION FOR AUTHORIZATION		REVISIONS	
						APPROVED		DATE		PRECONSTRUCTION ENGINEER		QUANT.		DJD		05/03		CHECK		LDD		05/03		BY					



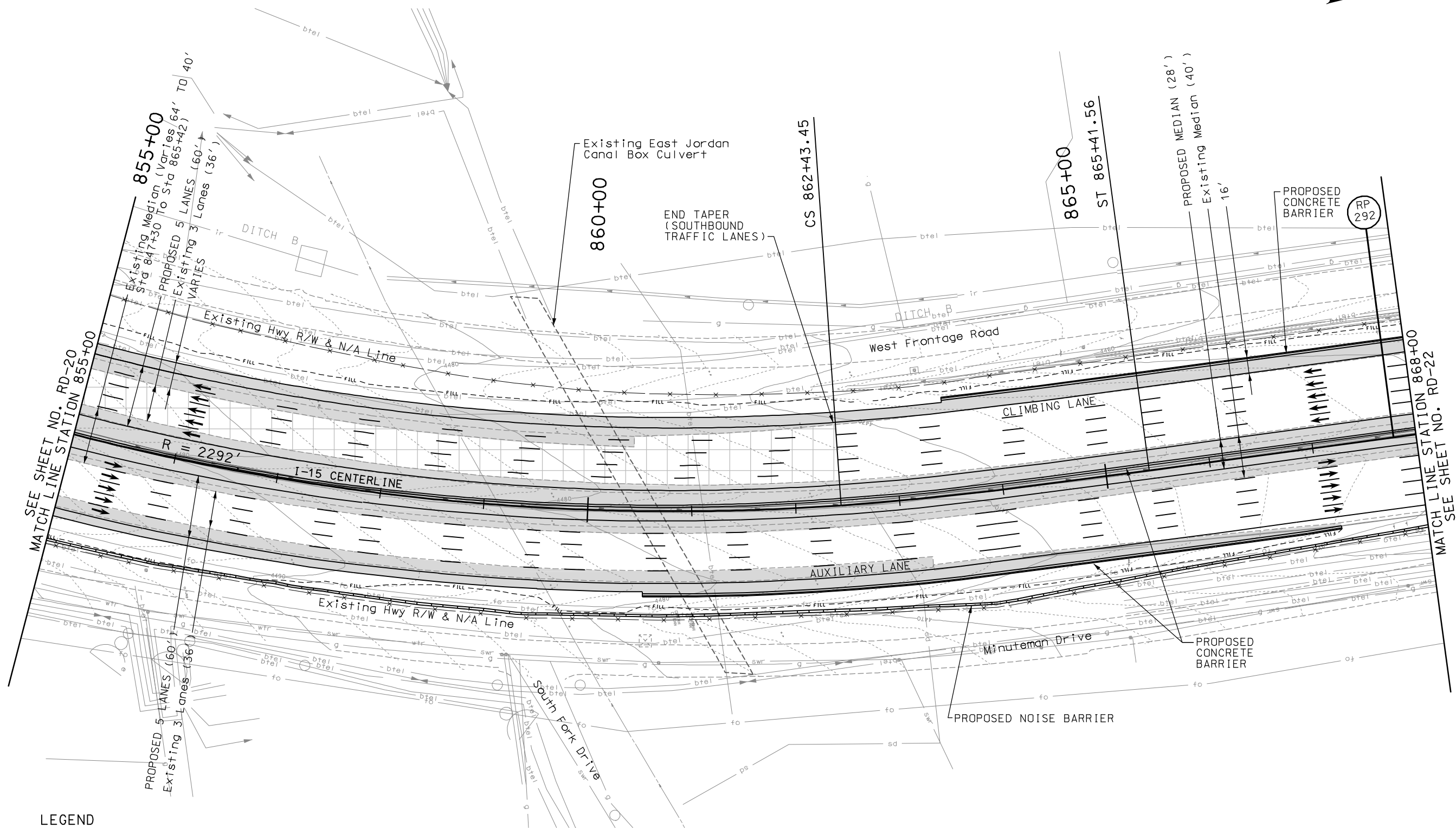


1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
2. ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

[illegible]

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RAISE EXISTING MEDIAN DROP INLETS.  
ADDITIONAL MEDIAN DROP INLETS WITH NEW MEDIAN TRUNK LINE AND ADDITIONAL CROSS CULVERTS



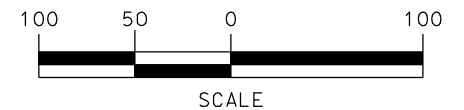
LEGEND

- TRAVEL LANE
- PROPOSED ASPHALT PAVEMENT WIDENING OR REPLACEMENT
- PROPOSED CRACK AND SEAT WITH ASPHALT PAVEMENT OVERLAY

NOTES:

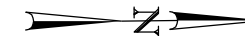
- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

MAY 28, 2003  
PRELIMINARY



UTAH DEPARTMENT OF TRANSPORTATION										STANLEY CONSULTANTS INC.									
REGION TWO										SALT LAKE CITY, UTAH									
I-15					DESIGN JRH					CHECK MDA					REVIEW				
UTAH CO. LINE TO 10600 SO.					DATE					DRAW LDD/GO					DATE				
9/8/10/8 LANE ALTERNATIVE					APPROVED					PRECONSTRUCTION ENGINEER					DATE				
PROJECT NUMBER					SP-15-7(167)288					QUANT. DJD					CHECK LDD				
SALT LAKE COUNTY					DATE					DESIGN MAPS					REVISIONS				
RD-21					DATE					DESIGN MAPS					REVISIONS				
SHEET NO.					DATE					DESIGN MAPS					REVISIONS				
RD-21					DATE					DESIGN MAPS					REVISIONS				


RAISE EXISTING MEDIAN DROP INLETS.  
ADDITIONAL MEDIAN DROP INLETS WITH NEW MEDIAN TRUNK LINE



**LEGEND**

---

→ TRAVEL LANE

 PROPOSED ASPHALT PAVEMENT  
WIDENING OR REPLACEMENT

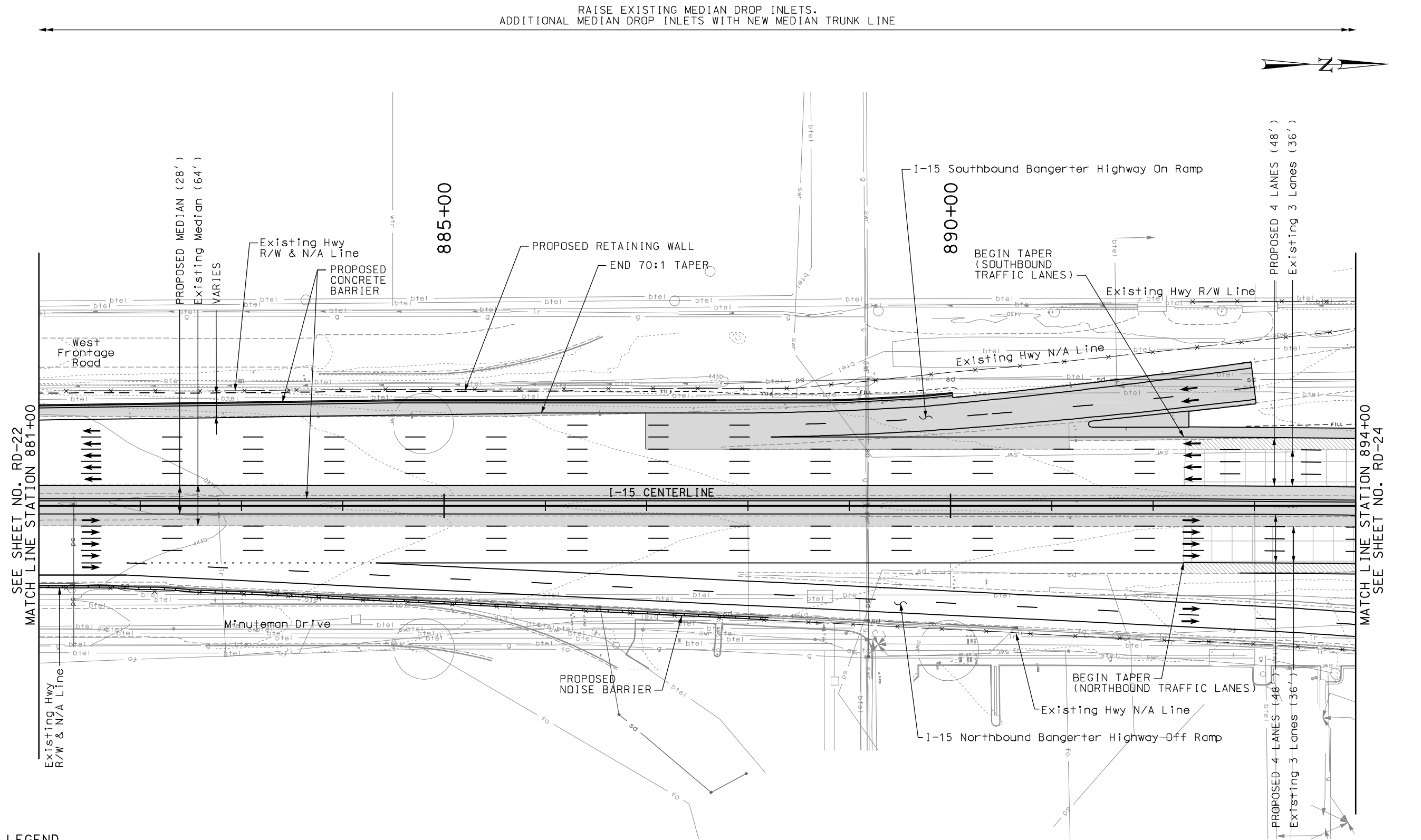
- ## NOTES:
- 
1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
  2. ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

MAY 28, 2003  
PRELIMINARY



SALT LAKE COUNTY		UTAH DEPARTMENT OF TRANSPORTATION												Stanley Consultants Inc.			
		REGION TWO SALT LAKE CITY, UTAH															
I-15		UTAH CO. LINE TO 10600 SO.															
9/8/10/8 LANE ALTERNATIVE		APPROVAL RECOMM.		DATE		PROJECT DESIGN ENGINEER		DESIGN JRH		CHECK MOA		05/03		REVIEW			
PROJECT NUMBER		APPROVED		DATE		PRECONSTRUCTION ENGINEER		DRAWN LDD/GO		05/03		CHECK JRH		05/03		DATE	
SP-15-7(167)288								QUANT. DJO		05/03		CHECK LDD		05/03		BY	
RD-22		NO. DATE DESIGN REV BY LARS PARCELS REQUEST															
		ORIGINAL SUBMISSION FOR AUTHORIZATION BY CORR BY AFFECTED BY															
SHEET NO.		DATE														REVISIONS	

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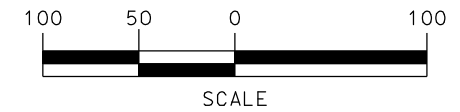
UTAH DEPARTMENT OF TRANSPORTATION		REGION TWO		SALT LAKE CITY, UTAH		Stanley Consultants		REVIEW		DESIGN MAPS / PARCELS REQUEST		REMARKS	
I-15		UTAH CO. LINE TO 10600 SO.		9/8/10/8 LANE ALTERNATIVE		PROJECT NUMBER		SP-15-7(167)288		NO. DATE		DATE	
APPROVAL		DATE		PROJECT DESIGN ENGINEER		DATE		RECONSTRUCTION ENGINEER		DATE		ORIGINAL SUBMISSION FOR AUTHORIZATION	
SALT LAKE COUNTY		RD-23		SHEET NO.		RD-23		RD-23		RD-23		RD-23	



- NOTES:

1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
2. ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

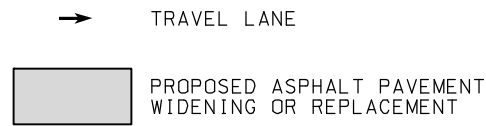
MAY 28, 2003  
PRELIMINARY

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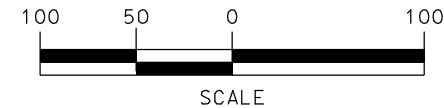
#### LEGEND



#### NOTES:

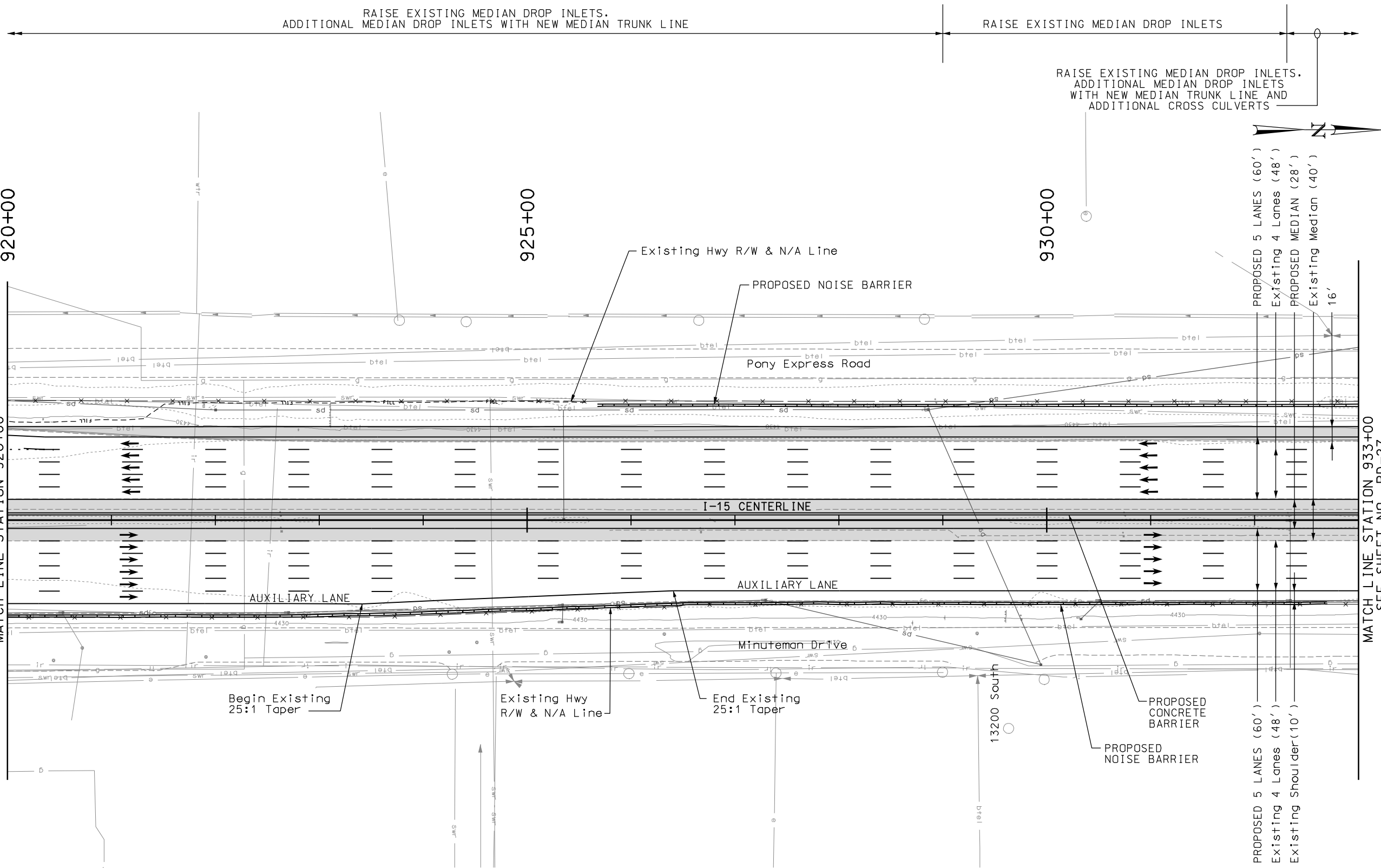
- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

MAY 28, 2003  
**PRELIMINARY**



SEE SHEET NO. RD-25  
MATCH LINE STATION 920+00

MATCH LINE STATION 933+00  
SEE SHEET NO. RD-27



UTAH DEPARTMENT OF TRANSPORTATION		REGION TWO		SALT LAKE CITY, UTAH		Stanley Consultants	
I-15		UTAH CO. LINE TO 10600 SO.		9/8/10/8 LANE ALTERNATIVE		PROJECT NUMBER SP-15-7(167)288	
SALT LAKE COUNTY		SHEET NO. RD-26		APPROVAL		REVIEW	
				DATE		DATE	
				PROJECT DESIGN ENGINEER		CHECK	
				DATE		CHECK	
				PRECONSTRUCTION ENGINEER		CHECK	
				DATE		CHECK	
				QUANT.		CHECK	
				D.D.		CHECK	
				LDD/GO		CHECK	
				JRH		CHECK	
				DESIGN		CHECK	
				DATE		CHECK	
				MAY 05/03		MAY 05/03	
				REVISIONS		REVISIONS	
				ORIGINAL SUBMISSION FOR AUTHORIZATION		REVISIONS	
				DATE		DATE	
				NO. DATE		NO. DATE	
				DESIGN MAPS / PARCELS REQUESTED BY CORR. BY		DESIGN MAPS / PARCELS REQUESTED BY	
				REVISIONS		REVISIONS	

04-JUN-2003  
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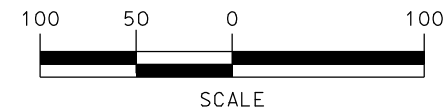
# LEGEND

- ↓ TRAVEL LANE
- ◇ HIGH OCCUPANCY VEHICLE (HOV) TRAVEL LANE
- PROPOSED ASPHALT PAVEMENT  
WIDENING OR REPLACEMENT
- PROPOSED CRACK AND SEAT WITH  
ASPHALT PAVEMENT OVERLAY

## NOTES:

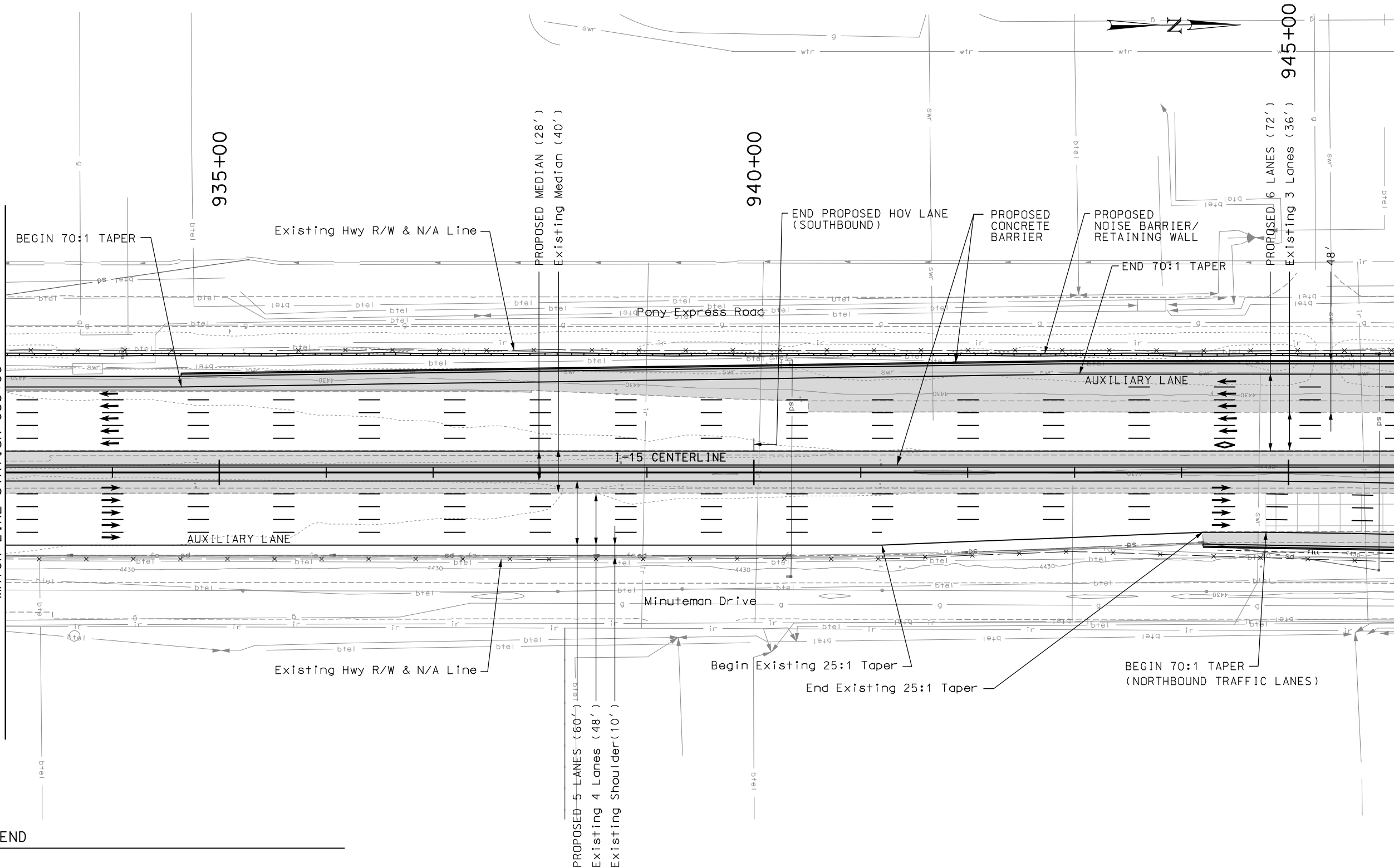
- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

MAY 28, 2003  
**PRELIMINARY**



SEE SHEET NO. RD-26  
MATCH LINE STATION 933+00

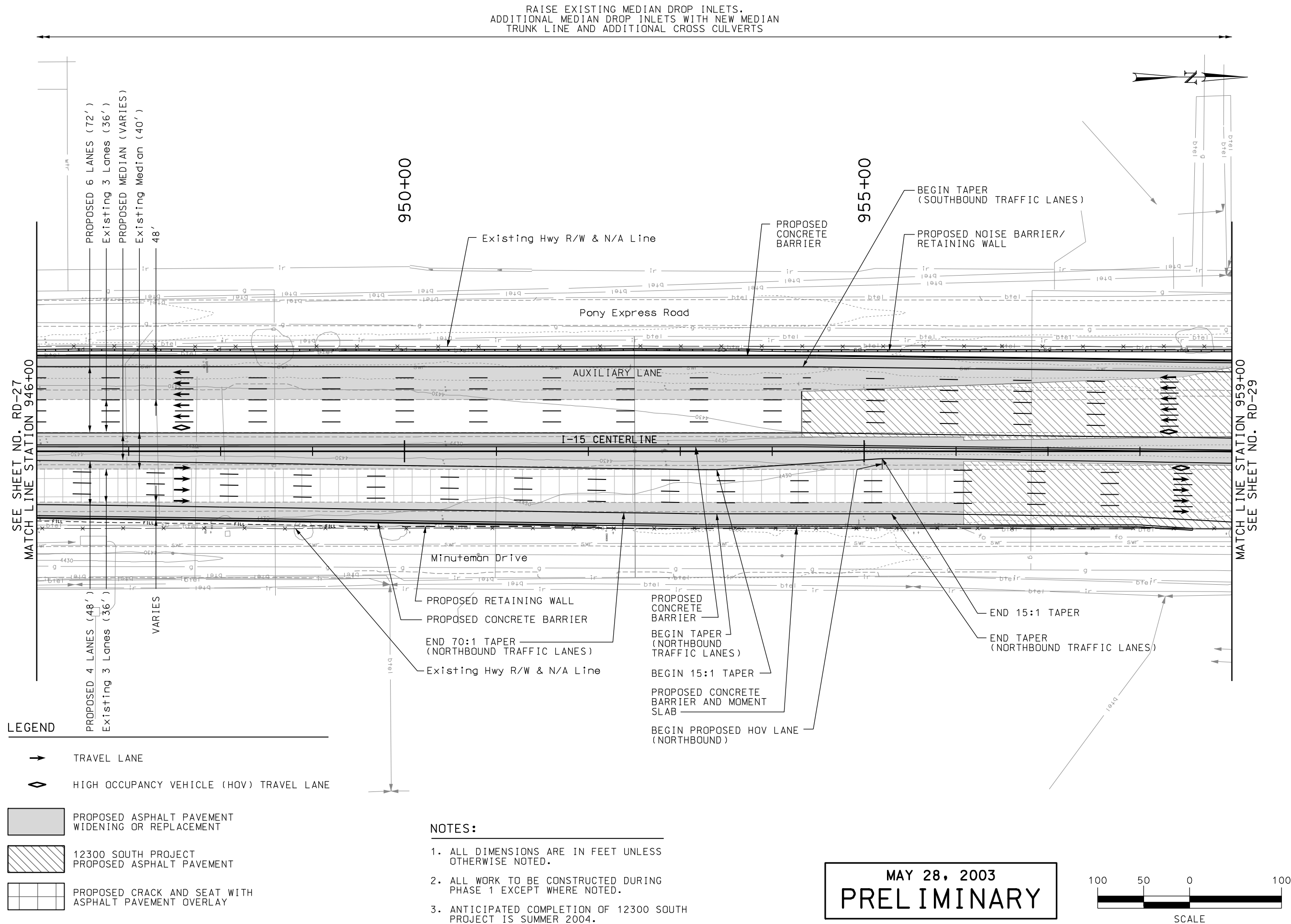
MATCH LINE STATION 946+00  
SEE SHEET NO. RD-28



SALT LAKE COUNTY		UTAH DEPARTMENT OF TRANSPORTATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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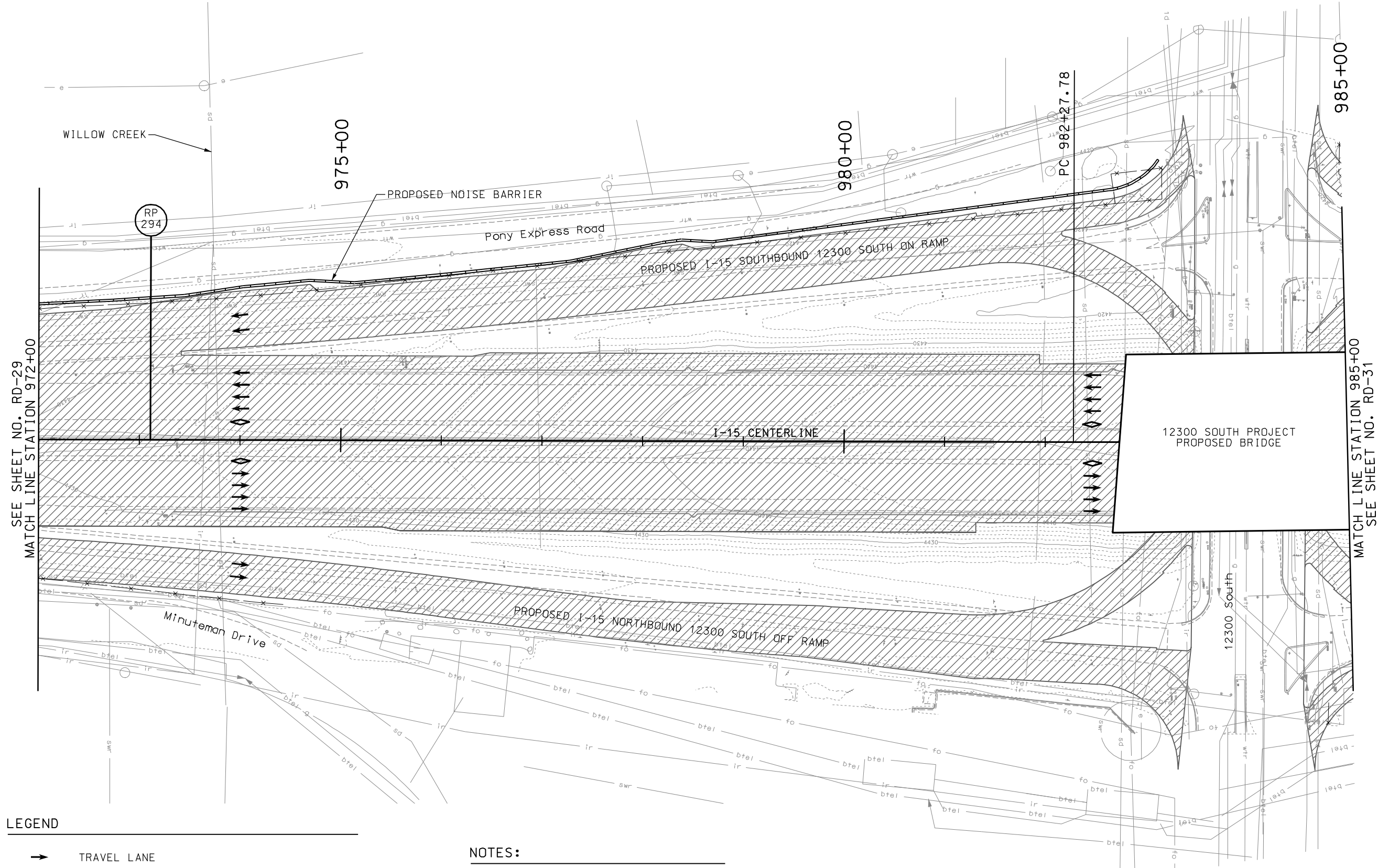
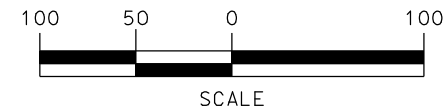
# LEGEND

- TRAVEL LANE
- ◇ HIGH OCCUPANCY VEHICLE (HOV) TRAVEL LANE
- 12300 SOUTH PROJECT PROPOSED CONCRETE PAVEMENT

## NOTES:

- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.
- ANTICIPATED COMPLETION OF 12300 SOUTH PROJECT IS SUMMER 2004.

MAY 28, 2003  
PRELIMINARY



SEE SHEET NO. RD-29  
MATCH LINE STATION 972+00



MATCH LINE STATION 985+00  
SEE SHEET NO. RD-31

I-15		UTAH CO. LINE TO 10600 SO.	
9/8/10/8 LANE ALTERNATIVE		PROJECT NUMBER SP-15-7(167)288	
SALT LAKE COUNTY		RD-30	

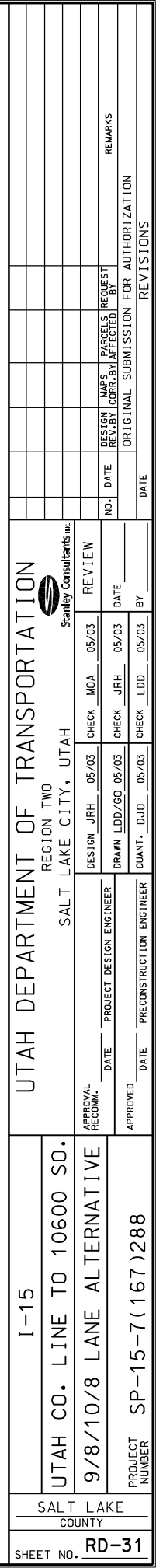
UTAH DEPARTMENT OF TRANSPORTATION			
REGION TWO			
SALT LAKE CITY, UTAH			
Stanley Consultants			
APPROVAL		REVIEW	
RECOMM.		BY	
DATE	PROJECT DESIGN ENGINEER	CHECK	DATE
DATE	PRECONSTRUCTION ENGINEER	CHECK	DATE
DATE	DESIGN	CHECK	DATE
DATE	DRAWN	CHECK	DATE
DATE	QUANT.	CHECK	DATE
DATE	LDG/GO	CHECK	DATE
DATE	JRH	CHECK	DATE
DATE	MOA	CHECK	DATE

DESIGN		REVISIONS	
MAPS		ORIGINAL SUBMISSION FOR AUTHORIZATION	
PARCELS REQUESTED BY		REVISED BY	
NO.		DATE	

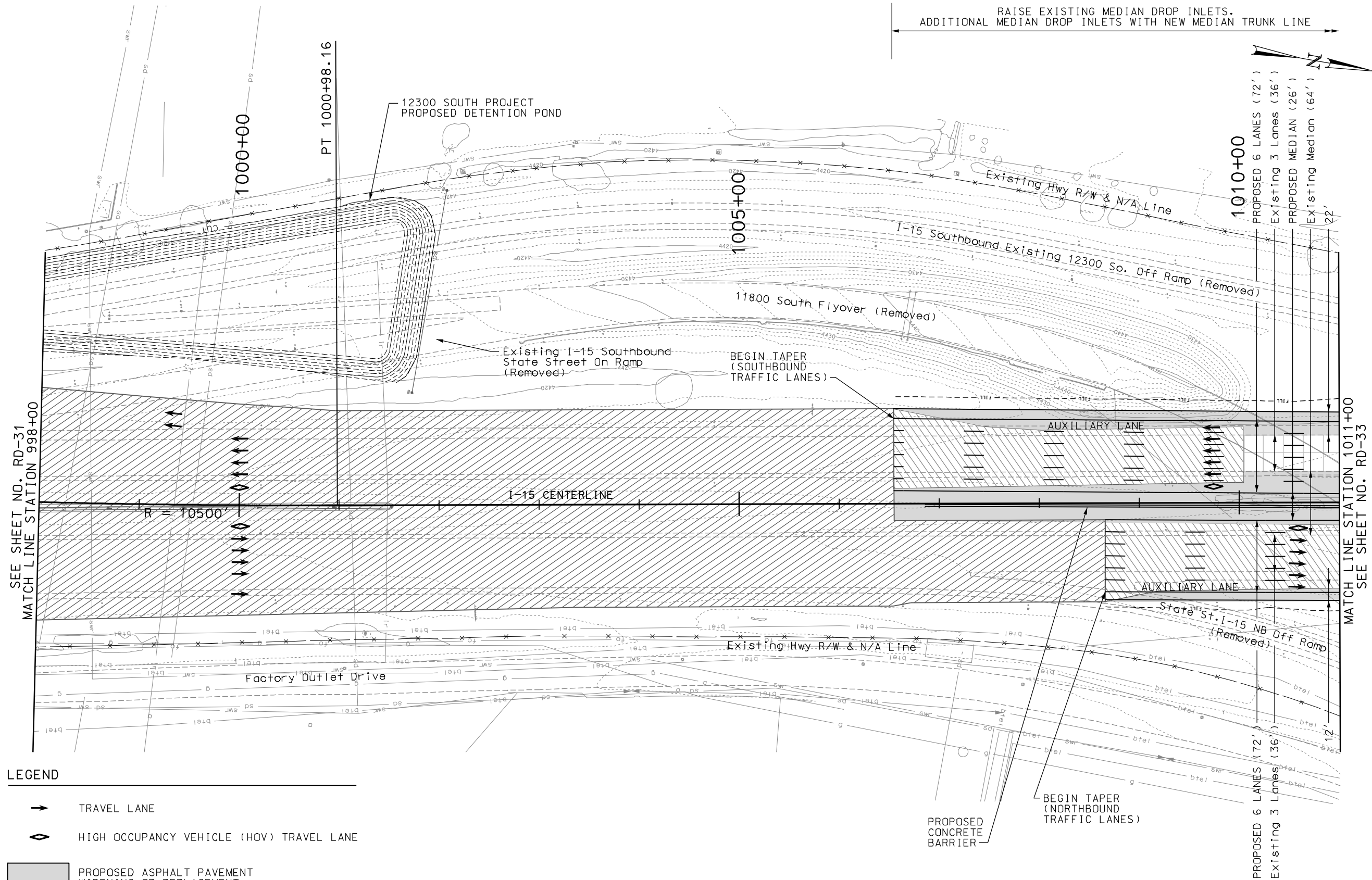


-  12300 SOUTH PROJECT  
PROPOSED ASPHALT PAVEMENT
-  12300 SOUTH PROJECT  
PROPOSED CONCRETE PAVEMENT

1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
2. ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.
3. ANTICIPATED COMPLETION OF 12300 SOUTH PROJECT IS SUMMER 2004.



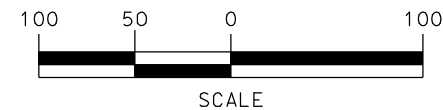
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LEGEND	
	TRAVEL LANE
	HIGH OCCUPANCY VEHICLE (HOV) TRAVEL LANE
	PROPOSED ASPHALT PAVEMENT WIDENING OR REPLACEMENT
	12300 SOUTH PROJECT PROPOSED ASPHALT PAVEMENT
	12300 SOUTH PROJECT PROPOSED CONCRETE PAVEMENT
	PROPOSED CRACK AND SEAT WITH ASPHALT PAVEMENT OVERLAY

- NOTES:
- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
  - ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.
  - ANTICIPATED COMPLETION OF 12300 SOUTH PROJECT IS SUMMER 2004.

MAY 28, 2003  
PRELIMINARY

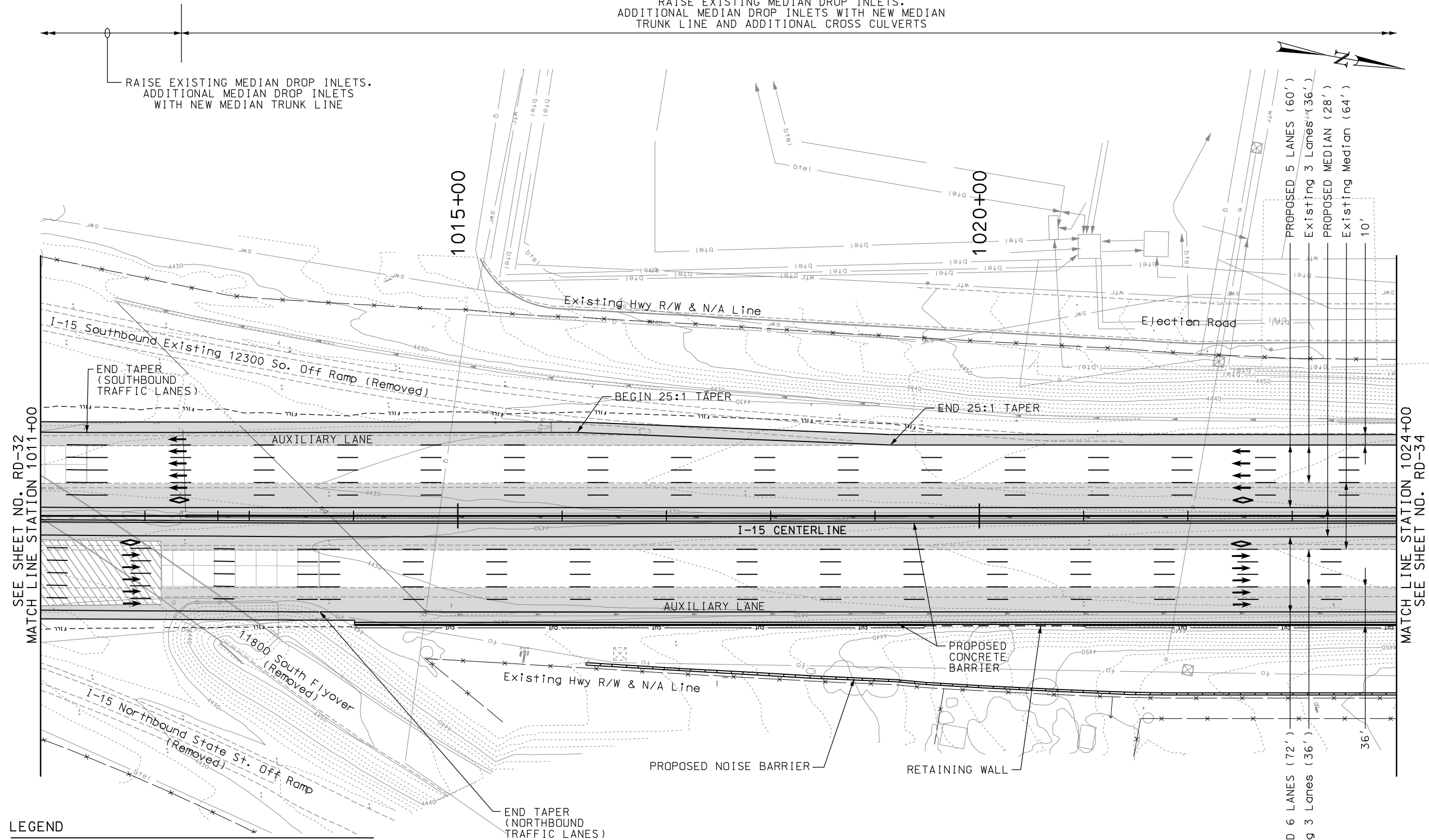


UTAH DEPARTMENT OF TRANSPORTATION										Stanley Consultants Inc.			
REGION TWO										SALT LAKE CITY, UTAH			
I-15		UTAH CO. LINE TO 10600 SO.		9/8/10/8 LANE ALTERNATIVE		PROJECT NUMBER		SP-15-7(167)288		DESIGN JRH	05/03	CHECK MDA	05/03
										DATE	PROJECT DESIGN ENGINEER	DATE	REVIEW
										DRAWN LDD/GO	05/03	CHECK JPH	05/03
										QUANT. DJD	05/03	CHECK LDD	05/03
										DATE	PRECONSTRUCTION ENGINEER	DATE	BY
										DESIGN NO.	DATE	DESIGN MAPS	REVISIONS
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RAISE EXISTING MEDIAN DROP INLETS.  
ADDITIONAL MEDIAN DROP INLETS WITH NEW MEDIAN  
TRUNK LINE AND ADDITIONAL CROSS CULVERTS

RAISE EXISTING MEDIAN DROP INLETS.  
ADDITIONAL MEDIAN DROP INLETS  
WITH NEW MEDIAN TRUNK LINE



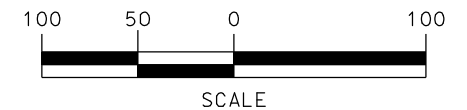
#### LEGEND

- ➔ TRAVEL LANE
- ◊ HIGH OCCUPANCY VEHICLE (HOV) TRAVEL LANE
- PROPOSED ASPHALT PAVEMENT  
WIDENING OR REPLACEMENT
- 12300 SOUTH PROJECT  
PROPOSED ASPHALT PAVEMENT
- PROPOSED CRACK AND SEAT WITH  
ASPHALT PAVEMENT OVERLAY

#### NOTES:

- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.
- ANTICIPATED COMPLETION OF 12300 SOUTH PROJECT IS SUMMER 2004.

MAY 28, 2003  
**PRELIMINARY**



SALT LAKE COUNTY		UTAH DEPARTMENT OF TRANSPORTATION										Stanley Consultants INC.													
I-15		REGION TWO										SALT LAKE CITY, UTAH													
UTAH CO. LINE TO 10600 SO.		APPROVAL RECOMM.		DATE		PROJECT DESIGN ENGINEER		DESIGN JRH		CHECK MDA		REVIEW		NO.		DATE		DESIGN REV. BY		MAPS CORR. BY		PARCELS REQUEST BY		REMARKS	
9/8/10/8 LANE ALTERNATIVE		APPROVED		DATE		PRECONSTRUCTION ENGINEER		DRAWN LDD/GO		CHECK JRH		DATE						ORIGINAL SUBMISSION FOR AUTHORIZATION							
PROJECT NUMBER		SP-15-7(167)288						QUANT. DJD		CHECK LDD		BY						DATE						REVISIONS	
SHEET NO.		RD-33																							



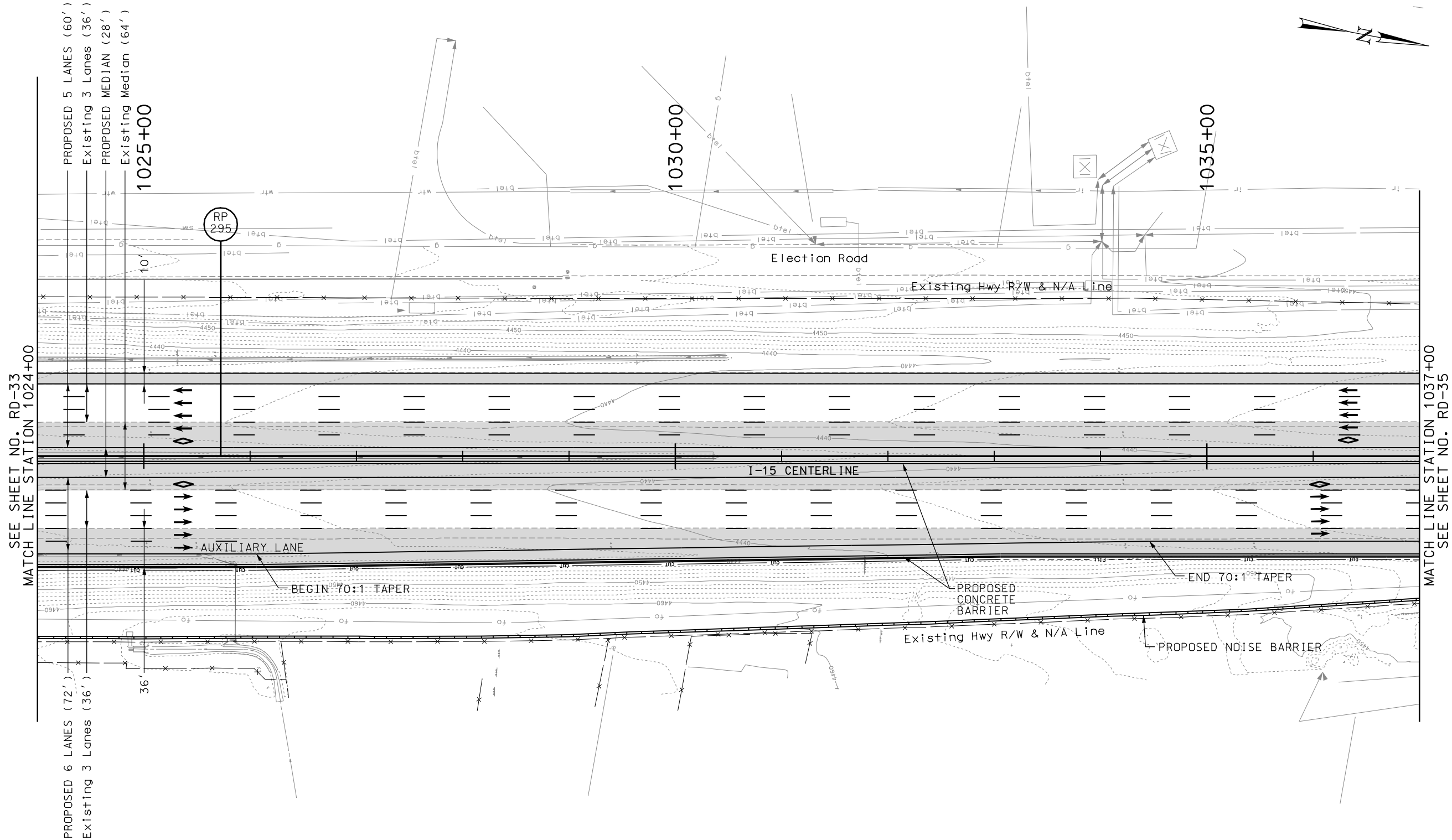
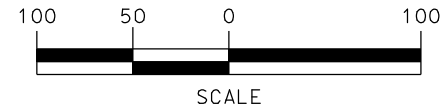
LEGEND

- TRAVEL LANE
- ◇ HIGH OCCUPANCY VEHICLE (HOV) TRAVEL LANE
- PROPOSED ASPHALT PAVEMENT  
WIDENING OR REPLACEMENT

NOTES:

- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

MAY 28, 2003  
PRELIMINARY



RAISE EXISTING MEDIAN DROP INLETS.  
ADDITIONAL MEDIAN DROP INLETS WITH NEW MEDIAN  
TRUNK LINE AND ADDITIONAL CROSS CULVERTS

I-15	UTAH CO. LINE TO 10600 SO.	APPROVAL RECOMM.	DATE	PROJECT DESIGN ENGINEER	DESIGN JRH 05/03	CHECK MCA 05/03	REVIEW	STANLEY CONSULTANTS INC.	UTAH DEPARTMENT OF TRANSPORTATION
9/8/10/8 LANE ALTERNATIVE	PROJECT NUMBER	APPROVED	DATE	RECONSTRUCTION ENGINEER	DRAWN LDD/GO 05/03	CHECK JRH 05/03	DATE	DESIGN MAPS / PARCELS REQUEST REV. BY CORR. BY AFFECTED BY	REMARKS
SP-15-7(167)288					QUANT. DJD 05/03	CHECK LDD 05/03	BY	ORIGINAL SUBMISSION FOR AUTHORIZATION	REVISIONS
SALT LAKE COUNTY									
SHEET NO.	RD-34								

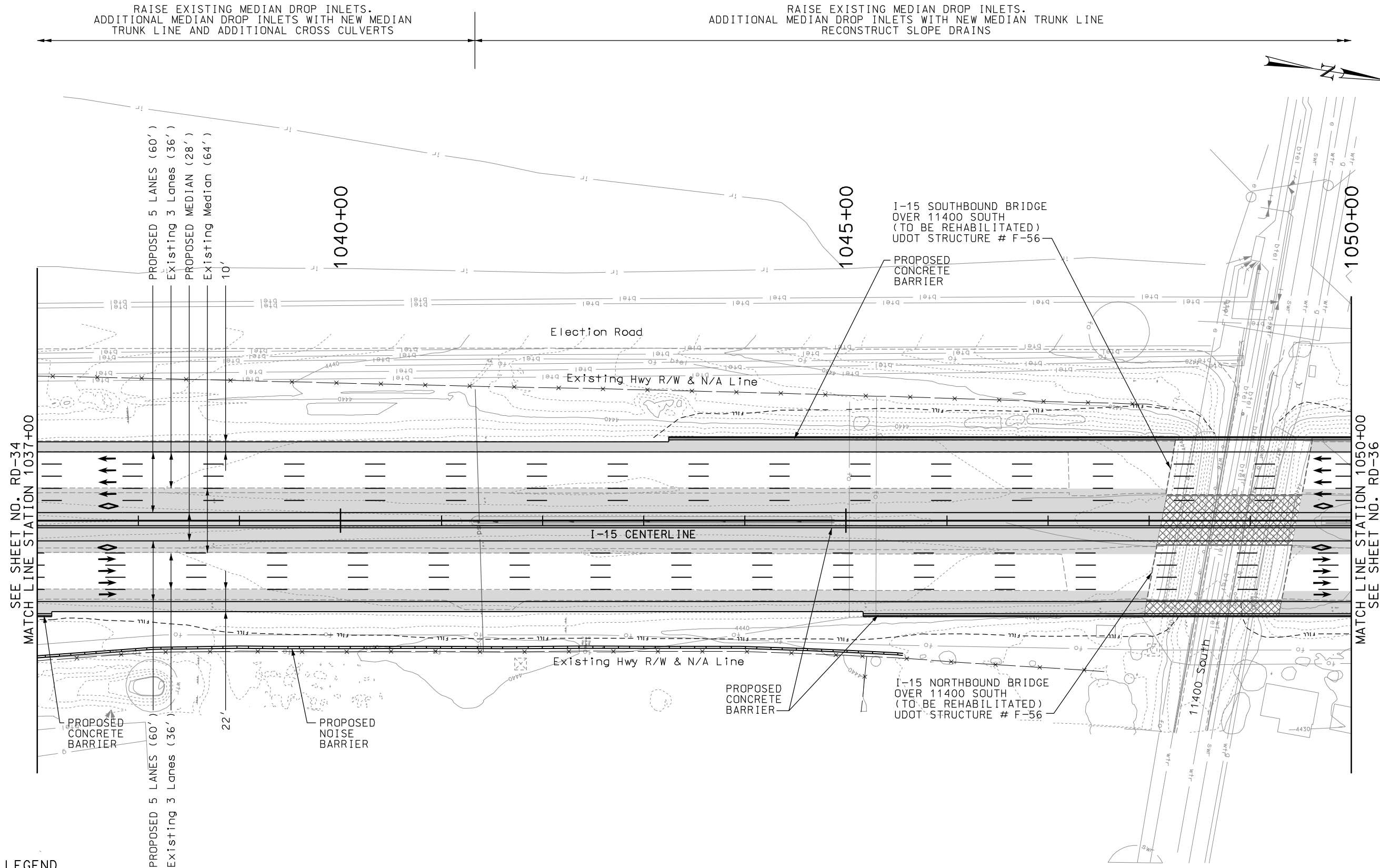
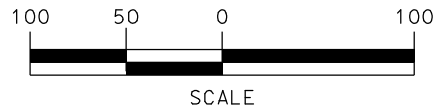
# LEGEND

- ↓ TRAVEL LANE
- ◇ HIGH OCCUPANCY VEHICLE (HOV) TRAVEL LANE
- PROPOSED ASPHALT PAVEMENT  
WIDENING OR REPLACEMENT
- PROPOSED BRIDGE WIDENING

## NOTES:

- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

MAY 28, 2003  
**PRELIMINARY**



SALT LAKE COUNTY		UTAH DEPARTMENT OF TRANSPORTATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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## RECONSTRUCT SLOPE DRAINS



1060+00

This plan view diagram illustrates the proposed and existing bridge deck configurations. The diagram is divided into two main sections: 'PROPOSED' and 'Existing'. The 'PROPOSED' section shows a 5-lane configuration with a total width of 60 feet, including a 10-foot median and 25-foot outer shoulders. The 'Existing' section shows a 3-lane configuration with a total width of 36 feet, including a 10-foot median and 13-foot outer shoulders. The diagram also shows the 'PROPOSED MEDIAN' and 'Existing Median' with their respective widths of 28 feet and 64 feet. The diagram includes various lane markings, including dashed lines for lane boundaries and solid lines for median boundaries. The diagram is oriented vertically, with the bridge deck running from top to bottom.

MATCH LINE STATION 1063+00  
SEE SHEET NO. RD-37

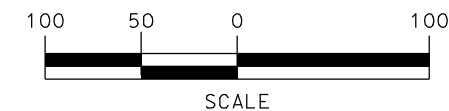
→ TRAVEL LANE

◇ HIGH OCCUPANCY VEHICLE (HOV) TRAVEL LANE

PROPOSED ASPHALT PAVEMENT  
WIDENING OR REPLACEMENT

1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
2. ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

MAY 28, 2003  
PRELIMINARY

[illegible]

Q:\16244\3525\_02\Sheet\_Files\Roadway\_Design\9\_8\_10\_8\3525\_9\_8\_10\_8L\_RD37.dgn 04-JUN-2003

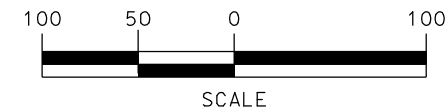
LEGEND

- TRAVEL LANE
- ◇ HIGH OCCUPANCY VEHICLE (HOV) TRAVEL LANE
- PROPOSED ASPHALT PAVEMENT  
WIDENING OR REPLACEMENT

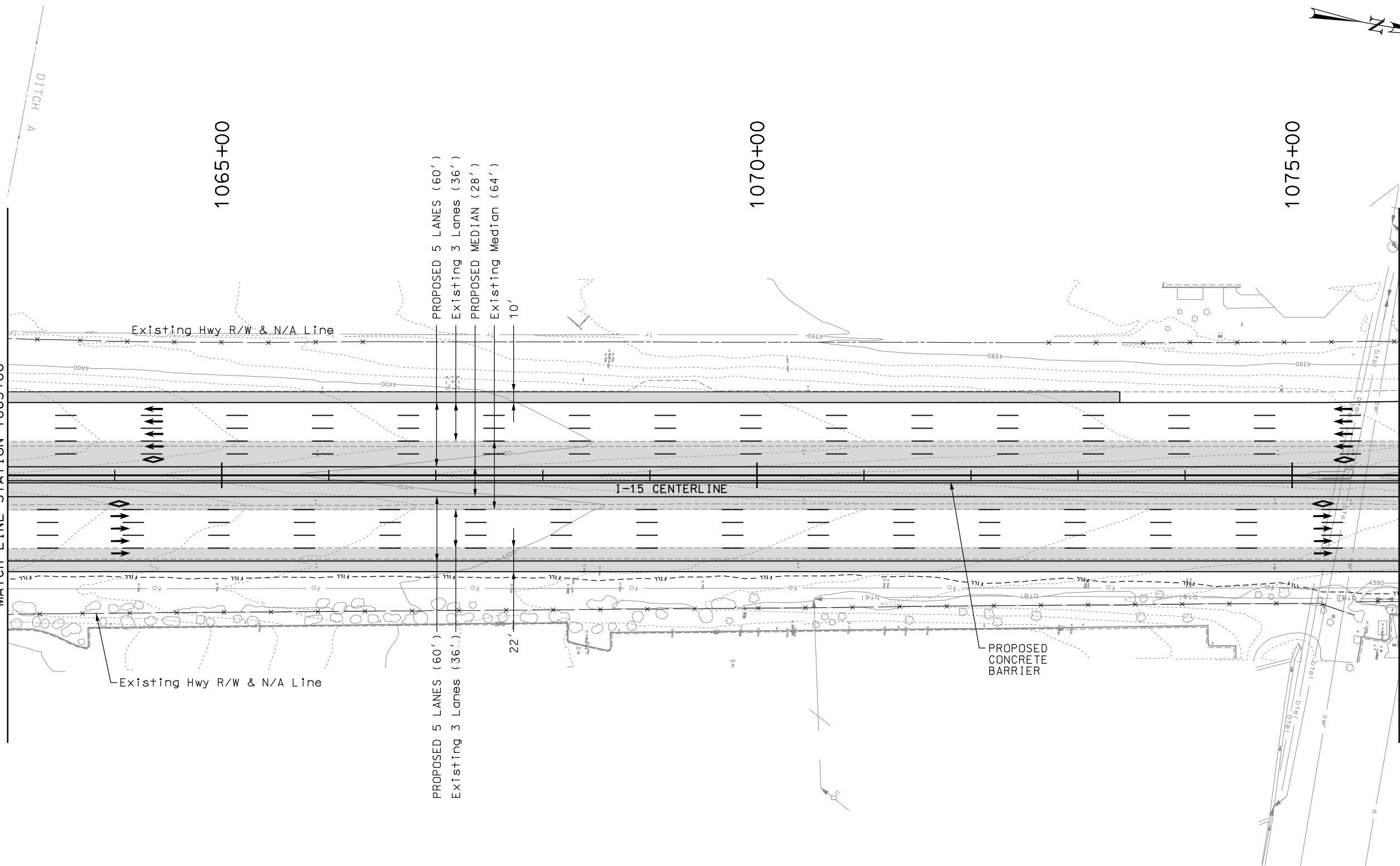
NOTES:

- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.


MAY 28, 2003  
PRELIMINARY



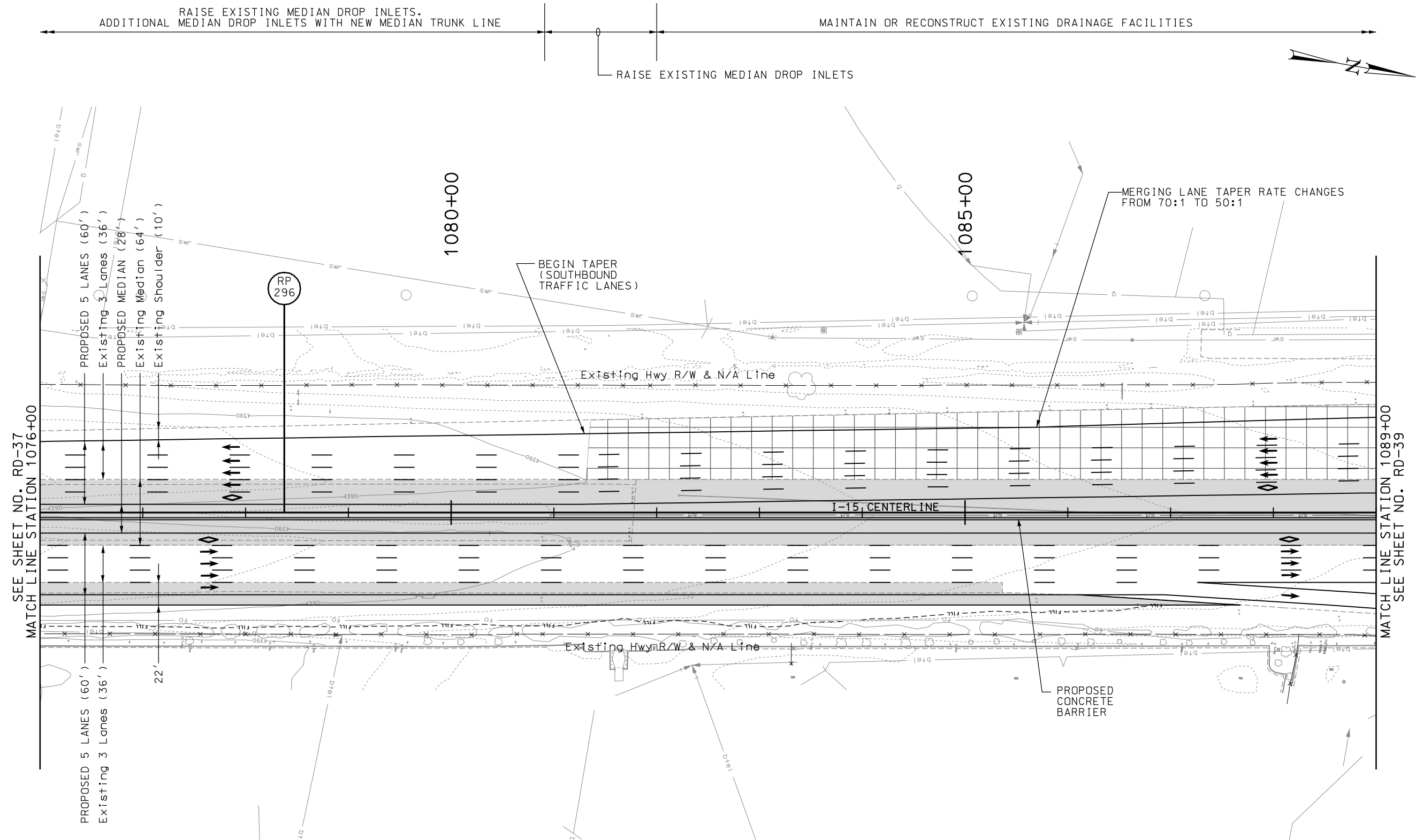
SEE SHEET NO. RD-36  
MATCH LINE STATION 1063+00



MATCH LINE STATION 1076+00  
SEE SHEET NO. RD-38

I-15		UTAH DEPARTMENT OF TRANSPORTATION													
UTAH CO. LINE TO 10600 SO.		REGION TWO				SALT LAKE CITY, UTAH				 Stanley Consultants Inc.					
9/8/10/8 LANE ALTERNATIVE		APPROVAL RECOMM.		DATE		PROJECT DESIGN ENGINEER		DESIGN JRH 05/03		CHECK MDA 05/03		REVIEW			
		APPROVED		DATE		PRECONSTRUCTION ENGINEER		DRAWN LDD/GO 05/03		CHECK JPH 05/03		DATE			
PROJECT NUMBER		SP-15-7(167)288						QUANT. DJO 05/03		CHECK LDD 05/03		BY			
SALT LAKE COUNTY		ORIGINAL SUBMISSION FOR AUTHORIZATION												REVISIONS	
SHEET NO.		RD-37													

Q:\16244\3525\_02\Sheet\_Files\Roadway\_Design\9\_8\_10\_8\3525\_9\_8\_10\_8L\_RD38.dgn 04-JUN-2003

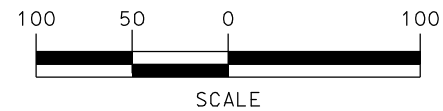


**LEGEND**

- ➔ TRAVEL LANE
- ◊ HIGH OCCUPANCY VEHICLE (HOV) TRAVEL LANE
- PROPOSED ASPHALT PAVEMENT WIDENING OR REPLACEMENT
- PROPOSED CRACK AND SEAT WITH ASPHALT PAVEMENT OVERLAY

- NOTES:**
- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
  - ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

MAY 28, 2003  
**PRELIMINARY**



I-15		UTAH DEPARTMENT OF TRANSPORTATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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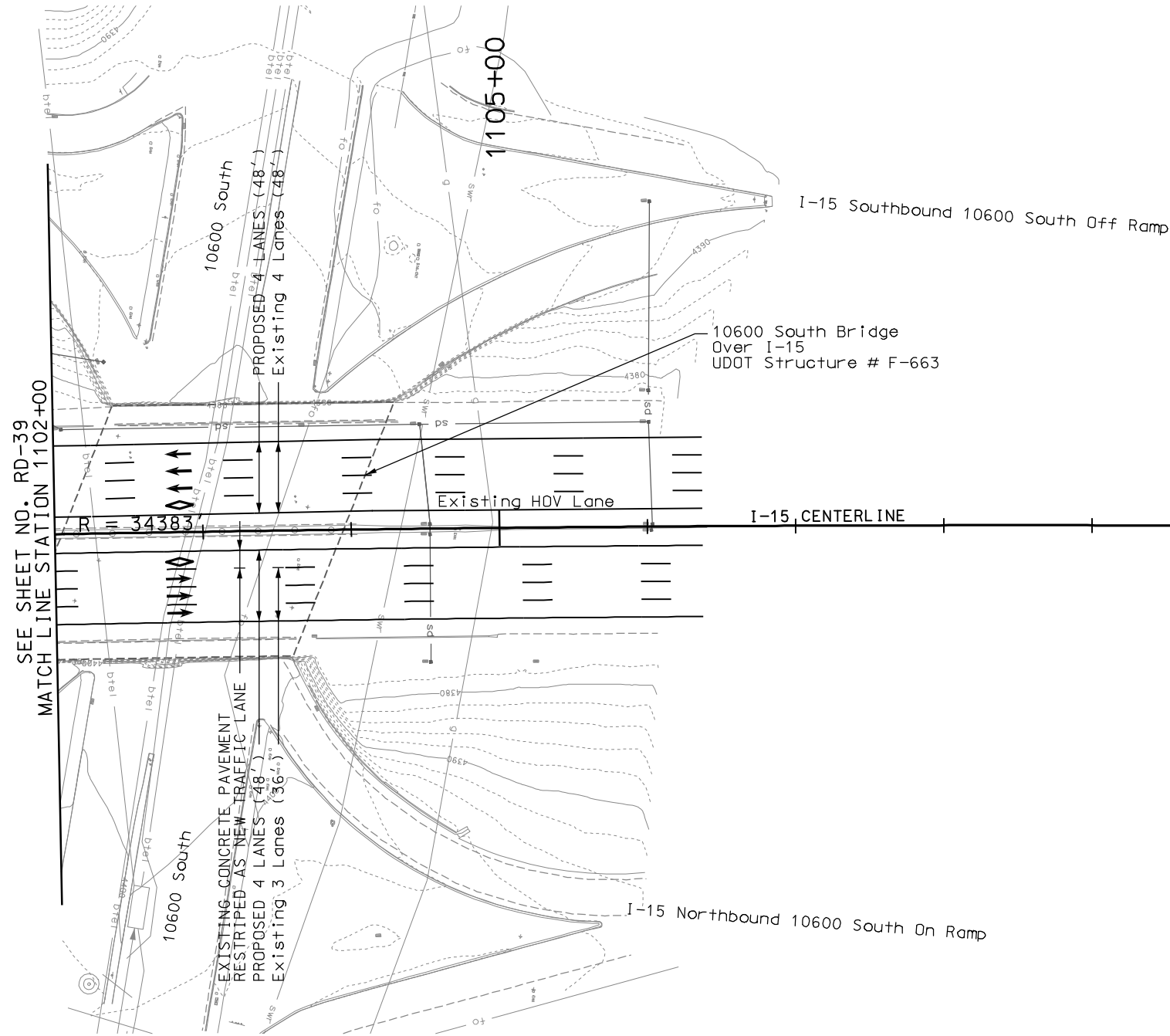


LEGEND

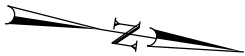
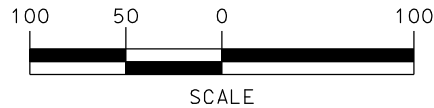
- TRAVEL LANE
- ◇ HIGH OCCUPANCY VEHICLE (HOV) TRAVEL LANE
- PROPOSED ASPHALT PAVEMENT  
WIDENING OR REPLACEMENT

NOTES:

- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- ALL WORK TO BE CONSTRUCTED DURING PHASE 1 EXCEPT WHERE NOTED.

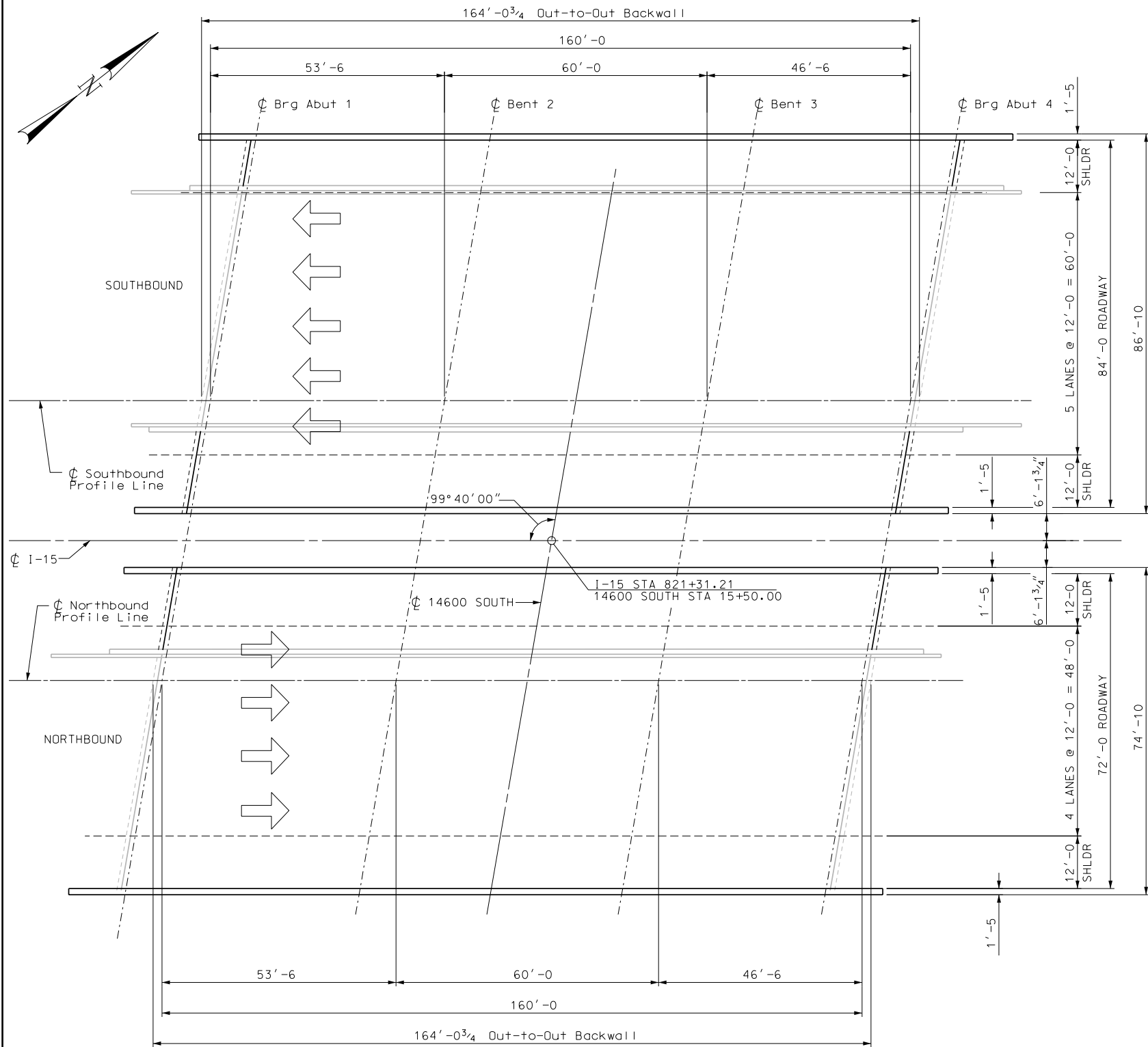


MAY 28, 2003  
PRELIMINARY

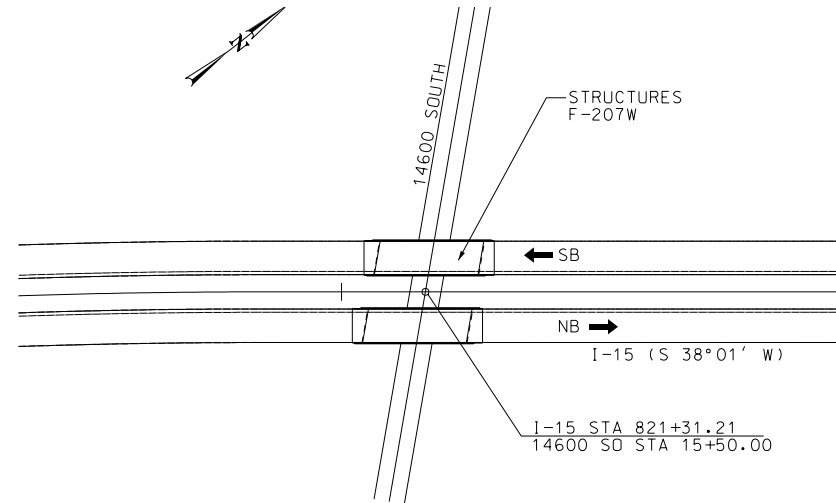


UTAH DEPARTMENT OF TRANSPORTATION		REGION TWO		SALT LAKE CITY, UTAH		Stanley Consultants Inc.	
I-15		UTAH CO. LINE TO 10600 SO.		DESIGN		REVIEW	
9/8/10/8 LANE ALTERNATIVE		APPROVAL		DATE		DATE	
PROJECT NUMBER SP-15-7(167)288		PROJECT DESIGN ENGINEER		DATE		DATE	
		APPROVED		DATE		DATE	
		PRECONSTRUCTION ENGINEER		DATE		DATE	
		DESIGN		CHECK		CHECK	
		NO. DATE		NO. DATE		NO. DATE	
		DESIGN MAPS		DESIGN MAPS		DESIGN MAPS	
		REV. BY CORR. BY		REV. BY CORR. BY		REV. BY CORR. BY	
		ORIGINAL SUBMISSION FOR AUTHORIZATION		ORIGINAL SUBMISSION FOR AUTHORIZATION		ORIGINAL SUBMISSION FOR AUTHORIZATION	
		REVISIONS		REVISIONS		REVISIONS	
		REMARKS		REMARKS		REMARKS	
SALT LAKE COUNTY		SALT LAKE COUNTY		SALT LAKE COUNTY		SALT LAKE COUNTY	
SHEET NO. RD-40		SHEET NO. RD-40		SHEET NO. RD-40		SHEET NO. RD-40	

6/4/2003 c:\16244\3525\_02\sheet\files\structures\146.s\3525\_146.plan01.dgn



PLAN



LOCATION PLAN

### GENERAL NOTES

- ALL REINFORCING STEEL SHALL BE COATED, DEFORMED BILLET-STEEL BARS CONFORMING TO AASHTO M284 OR M111 AND M31 GRADE 60.
- ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270 GRADE 36 EXCEPT WHERE NOTED OTHERWISE.
- CHAMFER ALL EXPOSED CONCRETE CORNERS 3/4" EXCEPT WHERE NOTED OTHERWISE.
- PROVIDE 2" CONCRETE COVER TO REINFORCING STEEL EXCEPT WHERE NOTED OTHERWISE.
- ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS AA (AE) EXCEPT WHERE NOTED OTHERWISE.

### DESIGN DATA

HS 20-44 OR INTERSTATE ALTERNATE LOADING IN ACCORDANCE WITH CURRENT AASHTO AND INTERIM SPECIFICATIONS.

CAST-IN-PLACE CONCRETE:  $f'_c = 3500$  psi;  $f'_c = 1400$  psi;  $f_s$  (REINF.) = 24,000 psi;  $n=8$   
PRESTRESSED CONCRETE:  $f'_{ci} = 3500$  psi;  $f'_c = 5000$  psi;  $f_s$  (NONPRESTRESSED) = 24,000 psi;  $n=6$   
STRUCTURAL STEEL:  $f_s = 20,000$  psi  
WEARING SURFACE: 1/2" CONCRETE; FUTURE = 35 psf  
DESIGN SPEED: 70 mph  
SEISMIC: SEISMIC PERFORMANCE CATEGORY C;  $A_{250} = X.XXg$ , SOIL TYPE I  
INVENTORY RATING: HS XX.X  
OPERATING RATING: HS XX.X

### QUANTITIES

ITEM	ESTIM.	UNIT	AS CONST.
STRUCTURAL CONCRETE (EST. QTY. 756 yd <sup>3</sup> )	1	LUMP	
REINFORCING STEEL (COATED)	170,170	lbs	
GRANULAR BACKFILL BORROW	105	yd <sup>3</sup>	
PRESTRESSED CONCRETE MEMBER (TYPE III) 47'-1	8	EACH	
PRESTRESSED CONCRETE MEMBER (TYPE III) 59'-10	8	EACH	
PRESTRESSED CONCRETE MEMBER (TYPE III) 54'-1	8	EACH	

### INDEX OF SHEETS

- SITUATION & LAYOUT
- SITUATION & LAYOUT
- REHABILITATION DETAILS

UTAH DEPARTMENT OF TRANSPORTATION  
SALT LAKE CITY, UTAH  
STRUCTURES DIVISION

I-15 UTAH CO. LINE TO 10600 SO.  
I-15 OVER 14600 SOUTH  
SITUATION & LAYOUT

SALT LAKE  
COUNTY

F-207W  
DRG. NO.

SHT. 1 OF 3

PROJECT  
NUMBER SP-15-7(167)288

APPROVED

DATE

QUANT.

DESIGN

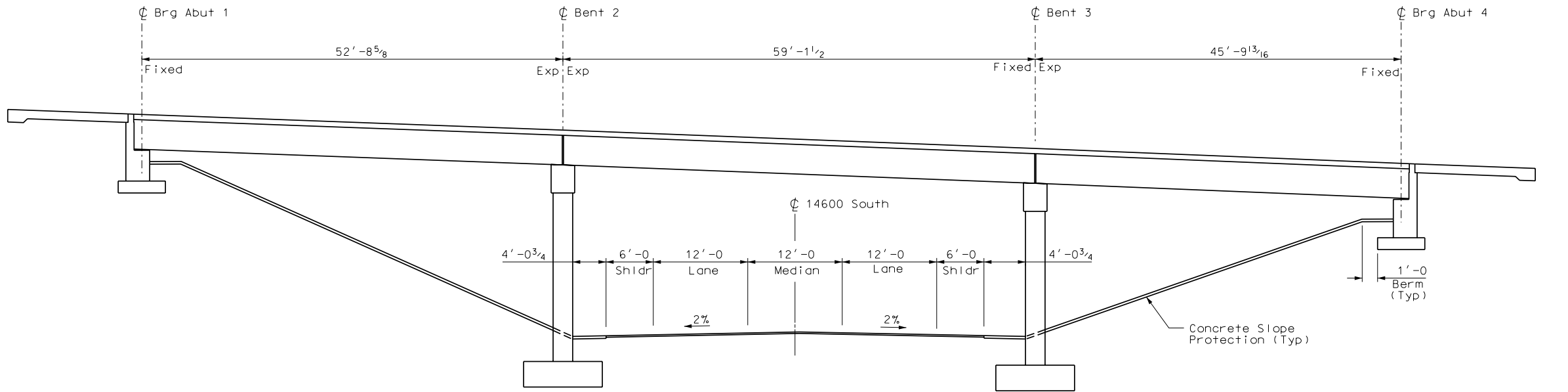
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DATE

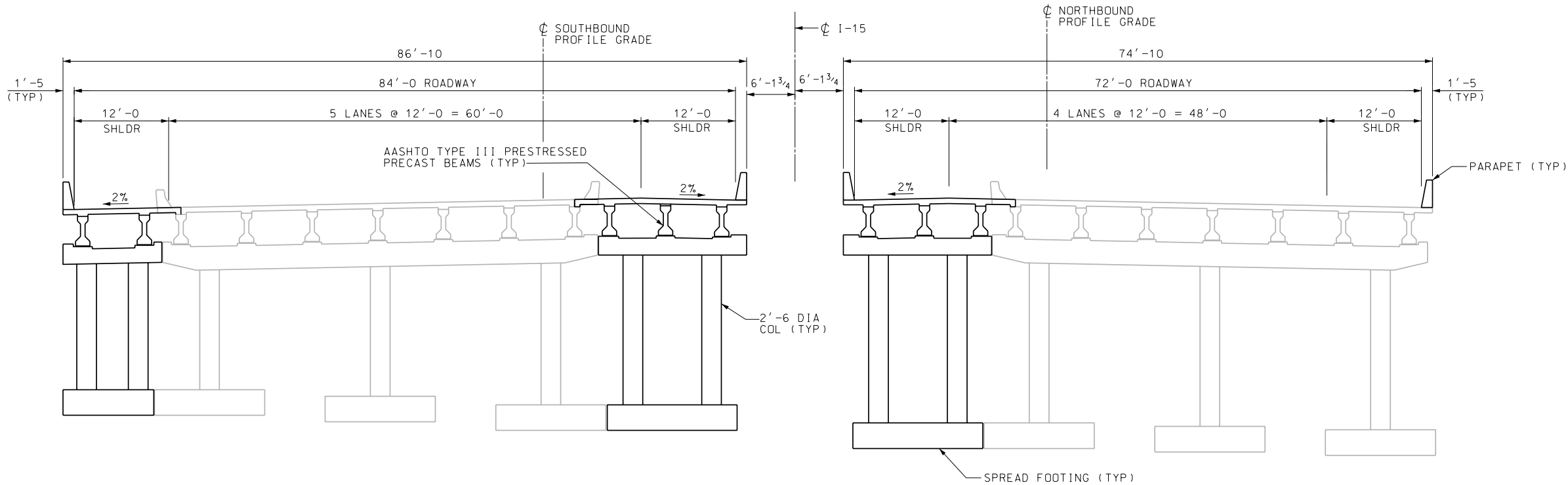
REVISIONS

PRELIMINARY  
NOT FOR CONSTRUCTION

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**ELEVATION**  
(NORMAL TO 14600 SOUTH STREET)



**SECTION THRU STRUCTURE**  
(NORMAL TO  $\phi$  I-15)

UTAH DEPARTMENT OF TRANSPORTATION  
SALT LAKE CITY, UTAH  
STRUCTURES DIVISION

I-15 UTAH CO. LINE TO 10600 SO.  
I-15 OVER 14600 SOUTH  
SITUATION & LAYOUT

PROJECT NUMBER SP-15-7(167)288

SALT LAKE  
COUNTY

F-207W  
DRG. NO.

SHT. 2 OF 3

**PRELIMINARY**  
NOT FOR CONSTRUCTION

REVISIONS

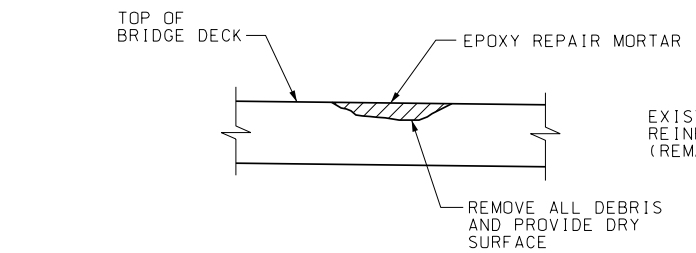
NO. DATE BY

CHECK JDP\_01/03  
CHECK DRS\_03/03  
CHECK BPD\_03/03

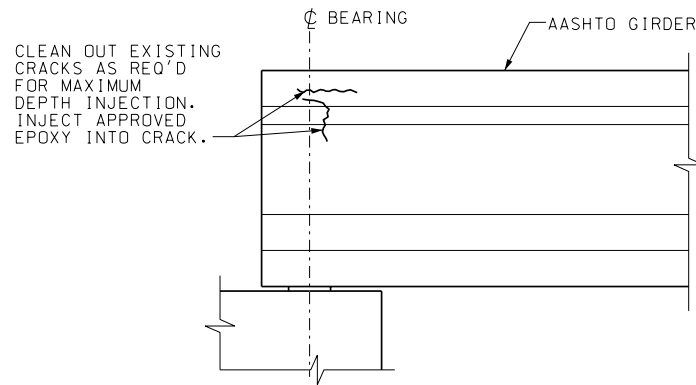
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DRAWN WJP\_01/03  
QUANT. JDP\_03/03

APPROVAL RECOMM. DATE SENIOR DESIGN ENGR.  
APPROVED DATE UDOT BRIDGE ENGR.

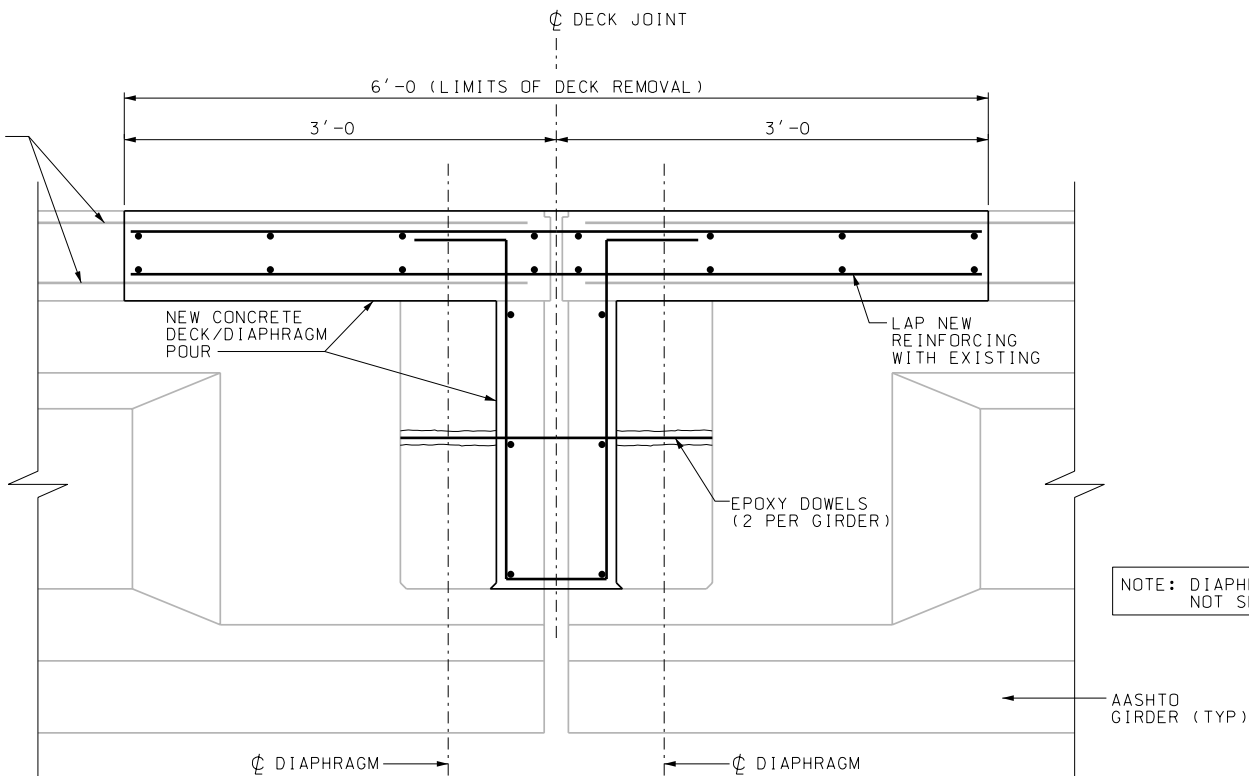
REMARKS



BRIDGE DECK POT HOLE DETAIL  
(DECK REINFORCING NOT SHOWN FOR CLARITY)



GIRDER END REPAIR DETAIL



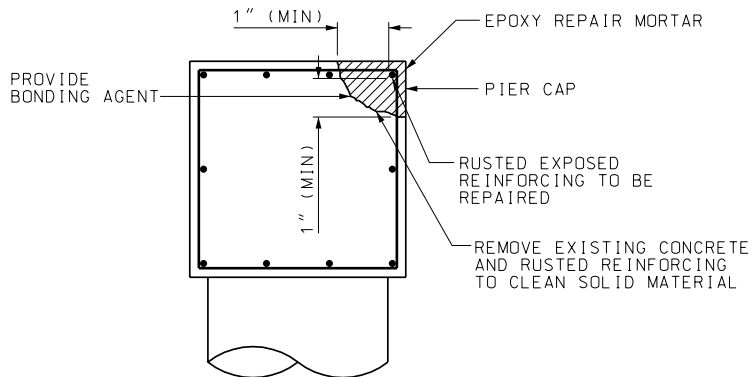
JOINT CLOSURE/DIAPHRAGM WIDENING DETAIL  
(PIER SHOWN, ABUTMENT SIMILAR)

QUANTITIES

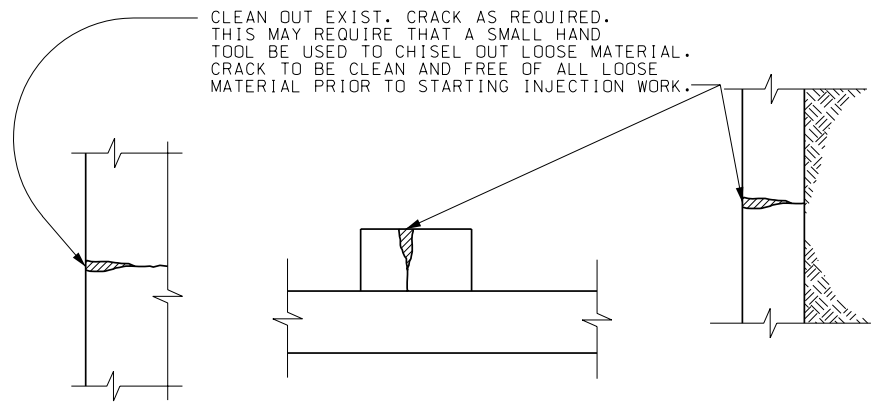
	ESTIMATE		
	NB	SB	UNIT
POTHOLE PATCHING *	918	918	FT²
GIRDER END REPAIR	6	8	EACH
JOINT CLOSURE	1343	1343	FT²
DIAPHRAGM WIDENING	62	62	YD³

\* ASSUMED 10% DECK AREA

NOTE: DIAPHRAGM REINFORCING NOT SHOWN FOR CLARITY.



TYPICAL CONCRETE SPALL/REINFORCING STEEL REPAIR DETAIL  
(PIER CAP SHOWN, SIMILAR FOR COLUMNS)



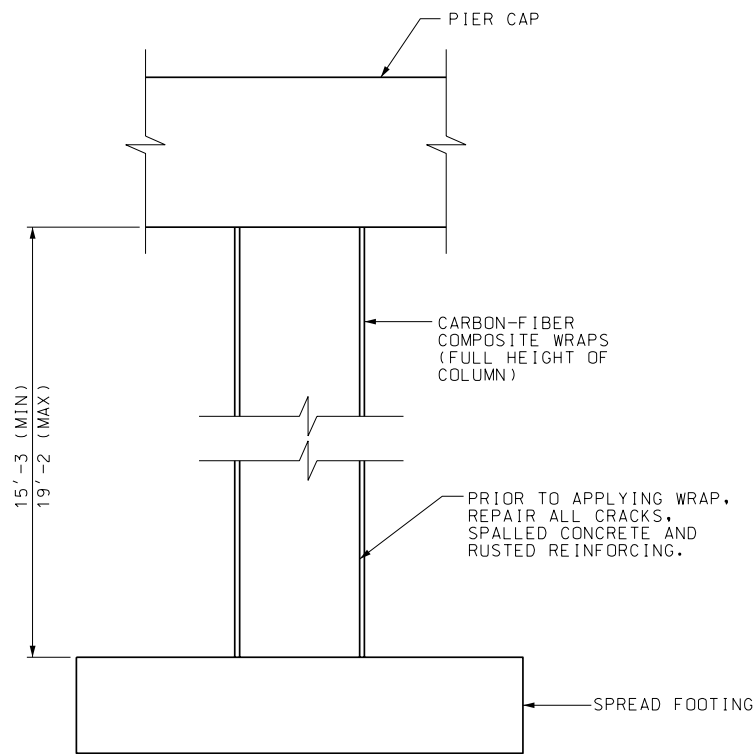
COLUMN/PIER CAP

GIRDER PEDESTAL

ABUTMENT BACKWALL

TYPICAL EPOXY INJECT CRACK REPAIR

SUPERSTRUCTURE



COLUMN WRAP DETAIL

QUANTITIES

	ESTIMATE		
	NB	SB	UNIT
GIRDER PEDESTALS	4	4	EACH
COLUMN (CRACK REPAIR)	0	1	EACH
COLUMN (SPALL/REINF. REPAIR)	3	2	EACH
COLUMN (WRAP)	3	3	EACH
PIER CAP (CRACK REPAIR)	0	0	EACH
PIER CAP (SPALL/REINF. REPAIR)	2	2	EACH
ABUTMENT BACKWALL**	4	4	EACH

\*\* ESTIMATE VALUES EQUAL NUMBER OF CRACKS, NOT NUMBER OF BACKWALLS.

SUBSTRUCTURE

UTAH DEPARTMENT OF TRANSPORTATION  
SALT LAKE CITY, UTAH  
STRUCTURES DIVISION

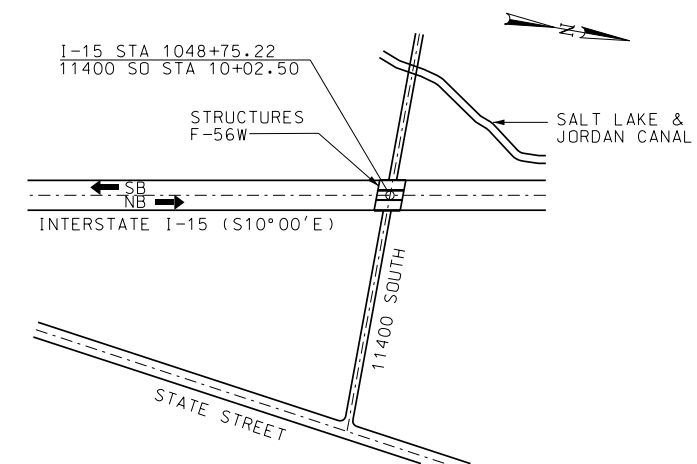
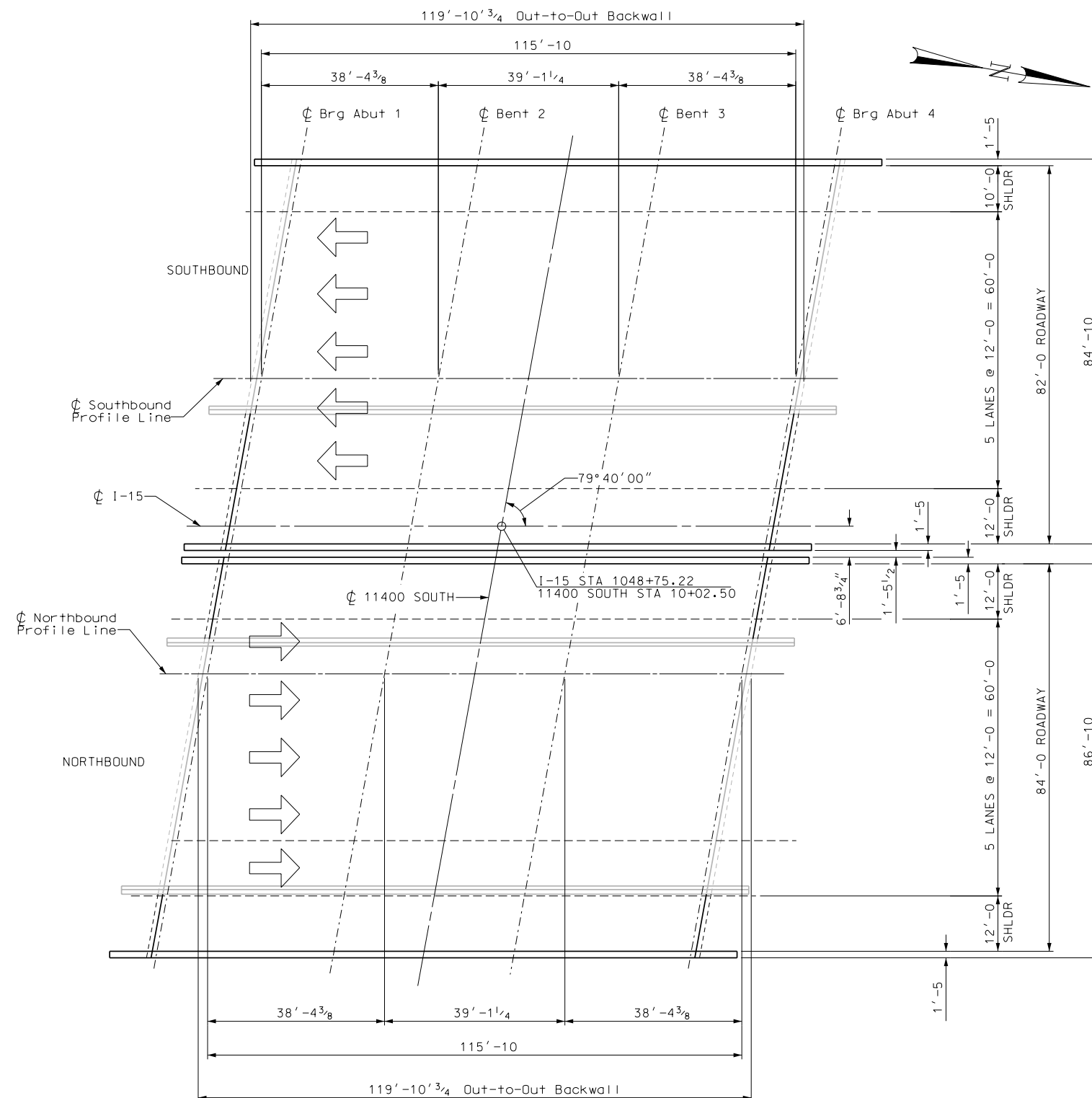
I-15 UTAH CO. LINE TO 10600 SO.  
I-15 OVER 14600 SOUTH  
REHABILITATION DETAILS

PROJECT NUMBER SP-15-7(167)288

SALT LAKE COUNTY  
F-207W  
DRG. NO.  
SHT. 3 OF 3

PRELIMINARY  
NOT FOR CONSTRUCTION





## GENERAL NOTES

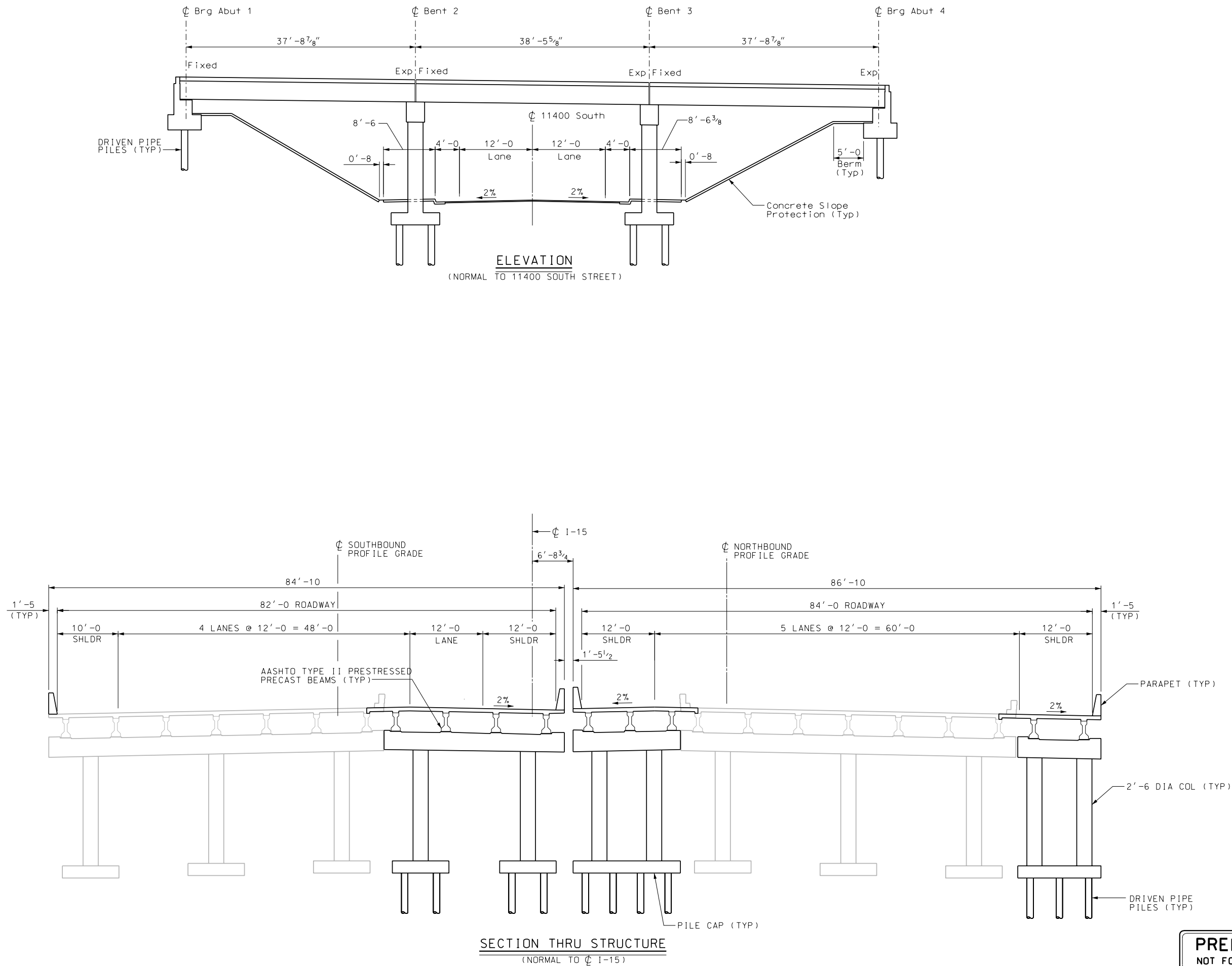
1. ALL REINFORCING STEEL SHALL BE COATED, DEFORMED BILLET-STEEL BARS CONFORMING TO AASHTO M284 OR M111 AND M31 GRADE 60.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270 GRADE 36 EXCEPT WHERE NOTED OTHERWISE.
3. CHAMFER ALL EXPOSED CONCRETE CORNERS  $\frac{3}{4}$ " EXCEPT WHERE NOTED OTHERWISE.
4. PROVIDE 2" CONCRETE COVER TO REINFORCING STEEL EXCEPT WHERE NOTED OTHERWISE.
5. ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS AA (AE) EXCEPT WHERE NOTED OTHERWISE.

## DESIGN DATA

HS 20-44 OR INTERSTATE ALTERNATE LOADING IN  
ACCORDANCE WITH CURRENT AASHTO AND INTERIM  
SPECIFICATIONS.

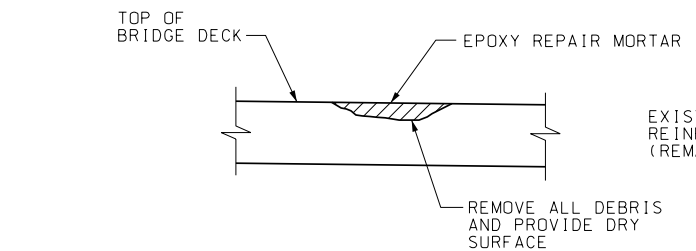
ITEM	ESTIM.	UNIT	AS CONST.
STRUCTURAL CONCRETE (EST. QTY. 662 yd <sup>3</sup> )	1	LUMP	
REINFORCING STEEL (COATED)	148,880	lbs	
GRANULAR BACKFILL BORROW	90	yd <sup>3</sup>	
PRESTRESSED CONCRETE MEMBER (TYPE II) 38' -11 <sup>3</sup> / <sub>8</sub>	27	EACH	
DRIVEN PILES 12 <sup>3</sup> / <sub>4</sub> IN	2680	LIN. FT	
PILE DRIVING EQUIPMENT	1	LUMP	

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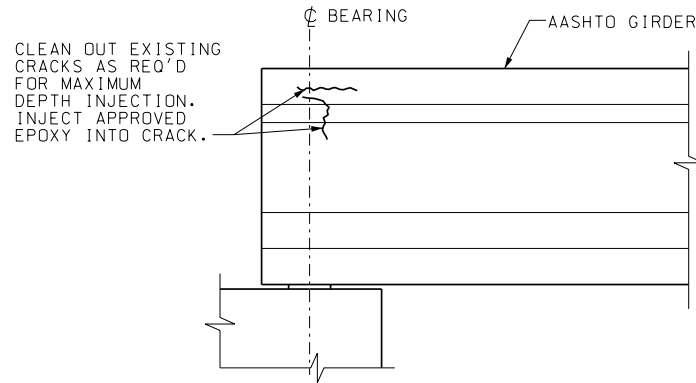


**PRELIMINARY**  
NOT FOR CONSTRUCTION

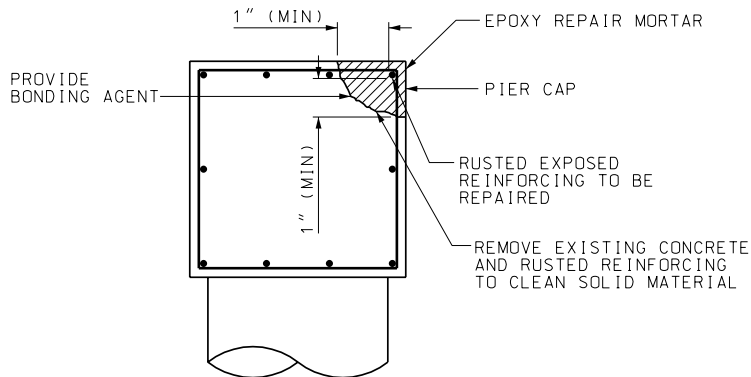
UTAH DEPARTMENT OF TRANSPORTATION		DESIGN JDP_01/03		CHECK JDP_01/03	
SALT LAKE CITY, UTAH		DRAWING NRD_01/03		CHECK DRS_03/03	
STRUCTURES DIVISION		QUANT. JDP_03/03		CHECK BPD_03/03	
APPROVAL		DATE		DATE	
RECOMM.		SENIOR DESIGN ENGR.		BY	
APPROVED		DATE		REVISIONS	
PROJECT NUMBER		UDOT BRIDGE ENGR.		NO.	
I-15 UTAH CO. LINE TO 10600 SO.		SITUATION & LAYOUT		DATE	
I-15 OVER 11400 SOUTH		SP-15-7(167)288		REMARKS	
SALT LAKE COUNTY		F-56W		BY	
DRG. NO.		SHT. 2 OF 3		DATE	



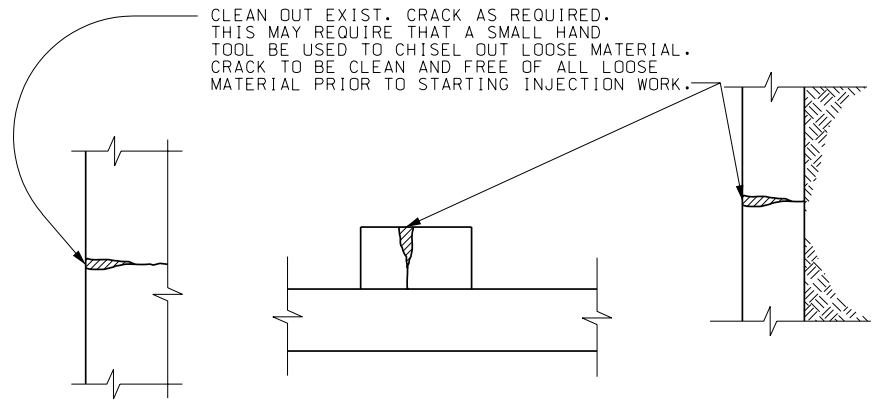
**BRIDGE DECK POTHOLE DETAIL**  
(DECK REINFORCING NOT SHOWN FOR CLARITY)



**GIRDER END REPAIR DETAIL**



**TYPICAL CONCRETE SPALL/REINFORCING STEEL REPAIR DETAIL**  
(PIER CAP SHOWN, SIMILAR FOR COLUMNS)

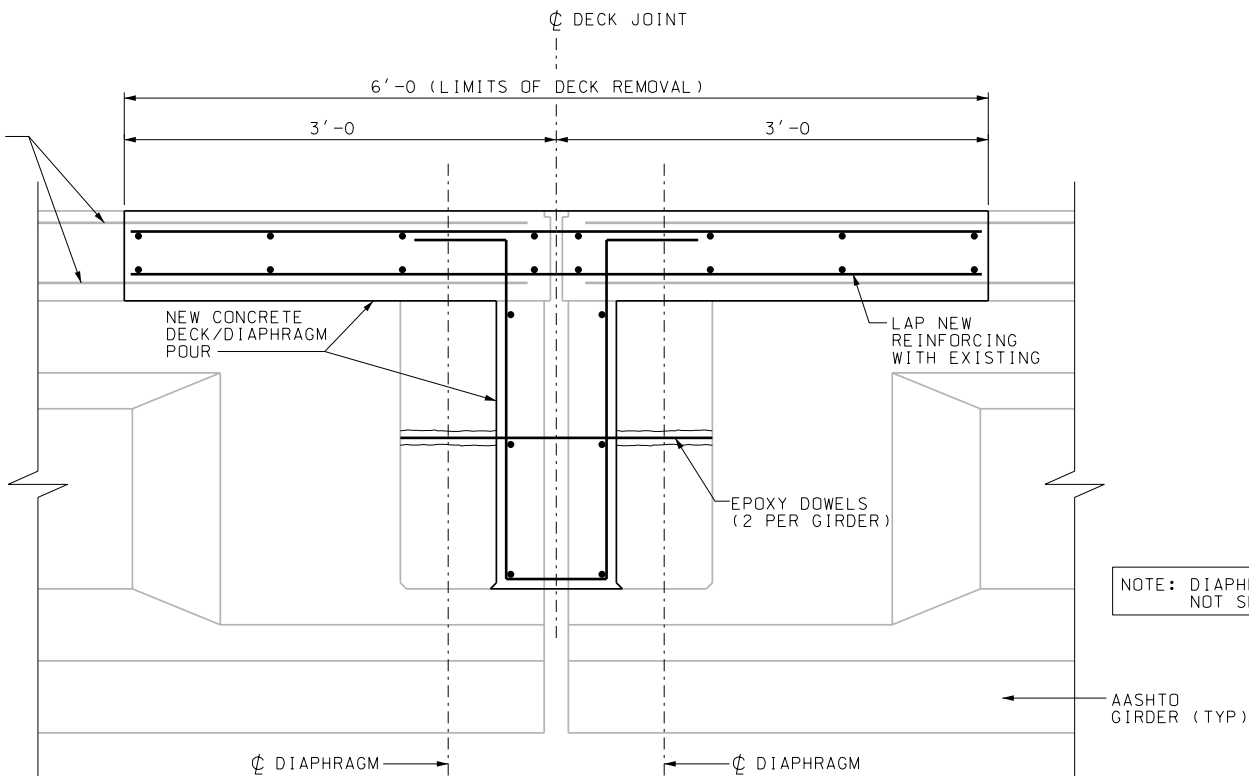


**COLUMN/PIER CAP**

**GIRDER PEDESTAL**

**ABUTMENT BACKWALL**

**TYPICAL EPOXY INJECT CRACK REPAIR**



**JOINT CLOSURE/DIAPHRAGM WIDENING DETAIL**  
(PIER SHOWN, ABUTMENT SIMILAR)

## SUPERSTRUCTURE

### QUANTITIES

	ESTIMATE		
	NB	SB	UNIT
POTHOLE PATCHING *	750	750	FT <sup>2</sup>
GIRDER END REPAIR	4	4	EACH
JOINT CLOSURE	1323	1323	FT <sup>2</sup>
DIAPHRAGM WIDENING	61	61	YD <sup>3</sup>

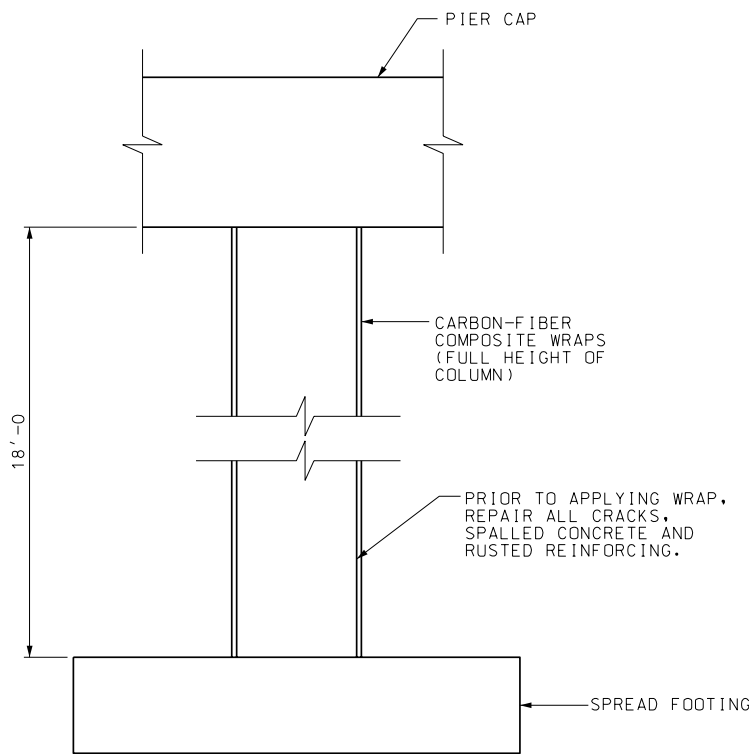
\* ASSUMED 10% DECK AREA

NOTE: DIAPHRAGM REINFORCING NOT SHOWN FOR CLARITY.

### QUANTITIES

	ESTIMATE		
	NB	SB	UNIT
GIRDER PEDESTALS	4	4	EACH
COLUMN (CRACK REPAIR)	2	1	EACH
COLUMN (SPALL/REINF. REPAIR)	0	0	EACH
COLUMN (WRAP)	0	0	EACH
PIER CAP (CRACK REPAIR)	1	2	EACH
PIER CAP (SPALL/REINF. REPAIR)	1	0	EACH
ABUTMENT BACKWALL**	4	4	EACH

\*\* ESTIMATE VALUES EQUAL NUMBER OF CRACKS, NOT NUMBER OF BACKWALLS.



**COLUMN WRAP DETAIL**

## SUBSTRUCTURE

UTAH DEPARTMENT OF TRANSPORTATION  
SALT LAKE CITY, UTAH  
STRUCTURES DIVISION

I-15 UTAH CO. LINE TO 10600 SO.  
I-15 OVER 11400 SOUTH  
REHABILITATION DETAILS

SALT LAKE COUNTY

F-56W  
DRG. NO.

SHT. 3 OF 3

APPROVAL  
RECOMM.

DATE

SENIOR DESIGN ENGR.

DATE

UDOT BRIDGE ENGR.

DATE

QUANT.

JDP\_03/03

CHECK

BPD\_03/03

DESIGN

JDP\_01/03

CHECK

DRS\_03/03

DRAWN

NRD\_01/03

REVISIONS

NO.

DATE

BY

REMARKS

**PRELIMINARY**  
NOT FOR CONSTRUCTION

**I-15**  
**Utah County Line to 10600 South**  
**Nine/Eight/Ten/Eight Alternative**  
**(9 Lanes, Alpine Int. to Bangerter Highway Int.; 8 Lanes Under Bangerter Highway;**  
**10 Lanes, Bangerter Highway Int. to 10600 South Int.; 8 Lanes Under 10600 South)**  
**Utah County Portion (Alpine Exit to Utah County Line)**

SUMMARY  
ESTIMATE OF PROBABLE COST

Item No.	Item Description	Quantity	Units	Unit Price	Total Cost
1	Roadway Excavation	4,700	CUYD	\$4.71	\$22,137
2	Borrow	23,400	CUYD	\$6.74	\$157,716
3	Roadway and Shoulder Pavement	12,200	SQYD	\$27.06	\$330,079
4	Reduced Pavement Section	0	SQYD	\$8.56	\$0
5	Crack and Seat with Pavement Overlay	0	SQYD	\$11.18	\$0
6	Rotomill and Pavement Overlay	0	SQYD	\$5.14	\$0
7	Stepped Pavement Type Concrete Barrier	0	FT	\$94.98	\$0
8	Concrete Barrier	500	FT	\$24.85	\$12,425
9	Concrete Barrier and Moment Slab	0	FT	\$118.00	\$0
10	Ramp Lighting	0	EACH	\$50,000.00	\$0
11	Overhead Sign Structure Widening	0	EACH	\$150,000.00	\$0
12	Bridge Rehabilitation	0	EACH	varies	\$0
13	Bridge Widening	0	SQFT	\$75.00	\$0
14	Retaining Wall	0	SQFT	\$30.00	\$0
15	Noise Barrier	1	LS	\$400,000.00	\$400,000
16	Drainage (10% of Items 1 - 15)	1	LS	10%	\$92,236
17	Temporary Erosion Control (10% of item 16)	1	LS	10%	\$9,224
18	Pavement Marking (5% of Items 3-6)	1	LS	5%	\$16,504
19	Maintenance of Traffic During Construction (10% of Items 1 - 15)	1	LS	10%	\$92,236
20	Items Not Estimated (10% of Items 1 - 15)	1	LS	10%	\$92,236
21	Mobilization (2% of Items 1-20)	1	LS	2%	\$24,496
22	Design and Construction Engineering (15% of items 1-20)	1	LS	15%	\$183,719
23	Inflation - 1 year at 3% (3% of items 1-22)	1	LS	3%	\$42,990
24	Contingency (10% of Items 1-23)	1	LS	10%	\$147,600
	<i>Total</i>				\$1,623,596
	<b>Total (Use)</b>				<b>\$2,000,000</b>

**I-15**  
**Utah County Line to 10600 South**  
**Nine/Eight/Ten/Eight Alternative**  
**(9 Lanes, Alpine Int. to Bangerter Highway Int.; 8 Lanes Under Bangerter Highway;**  
**10 Lanes, Bangerter Highway Int. to 10600 South Int.; 8 Lanes Under 10600 South)**  
**Salt Lake County Portion (Utah County Line to 10600 South)**

SUMMARY  
ESTIMATE OF PROBABLE COST

Item No.	Item Description	Quantity	Units	Unit Price	Total Cost
1	Roadway Excavation	250,800	CUYD	\$4.71	\$1,181,268
2	Borrow	0	CUYD	\$6.74	\$0
3	Roadway and Shoulder Pavement	364,000	SQYD	\$27.06	\$9,848,266
4	Reduced Pavement Section	24,500	SQYD	\$8.56	\$209,735
5	Crack and Seal with Pavement Overlay	32,900	SQYD	\$11.18	\$367,679
6	Rotomill and Pavement Overlay	9,600	SQYD	\$5.14	\$49,371
7	Stepped Pavement Type Concrete Barrier	800	FT	\$94.98	\$75,980
8	Concrete Barrier*	57,600	FT	\$24.85	\$1,431,360
9	Concrete Barrier and Moment Slab	1,100	FT	\$118.00	\$129,800
10	Ramp Lighting	0	EACH	\$50,000.00	\$0
11	Overhead Sign Structure Widening	1	EACH	\$150,000.00	\$150,000
12	Bridge Rehabilitation**	2	EACH	varies**	\$668,643
13	Bridge Widening	18,100	SQFT	\$75.00	\$1,357,500
14	Retaining Wall	50,900	SQFT	\$30.00	\$1,527,000
15	Noise Barrier	1	LS	\$1,400,000.00	\$1,400,000
16	Drainage (10% of Items 1 - 15)	1	LS	10%	\$1,839,660
17	Temporary Erosion Control (10% of item 16)	1	LS	10%	\$183,966
18	Pavement Marking (5% of Items 3-6)	1	LS	5%	\$523,753
19	Maintenance of Traffic During Construction (10% of Items 1 - 15)	1	LS	10%	\$1,839,660
20	Items Not Estimated (10% of Items 1 - 15)	1	LS	10%	\$1,839,660
21	Mobilization (2% of Items 1-20)	1	LS	2%	\$492,466
22	Design and Construction Engineering (15% of items 1-20)	1	LS	15%	\$3,693,495
23	Inflation - 1 year at 3% (3% of items 1-22)	1	LS	3%	\$864,278
24	Contingency (10% of Items 1-23)	1	LS	10%	\$2,967,354
	<i>Total</i>				\$32,640,894
	<b>Total (Use)</b>				<b>\$33,000,000</b>

\* Assuming that 1 mile (5,280') of UDOT furnished concrete barrier is available

\*\* 14600 Structure (F-207): \$394,526

\*\* 11400 Structure (F-56): \$274,117